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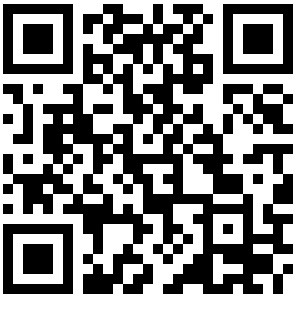
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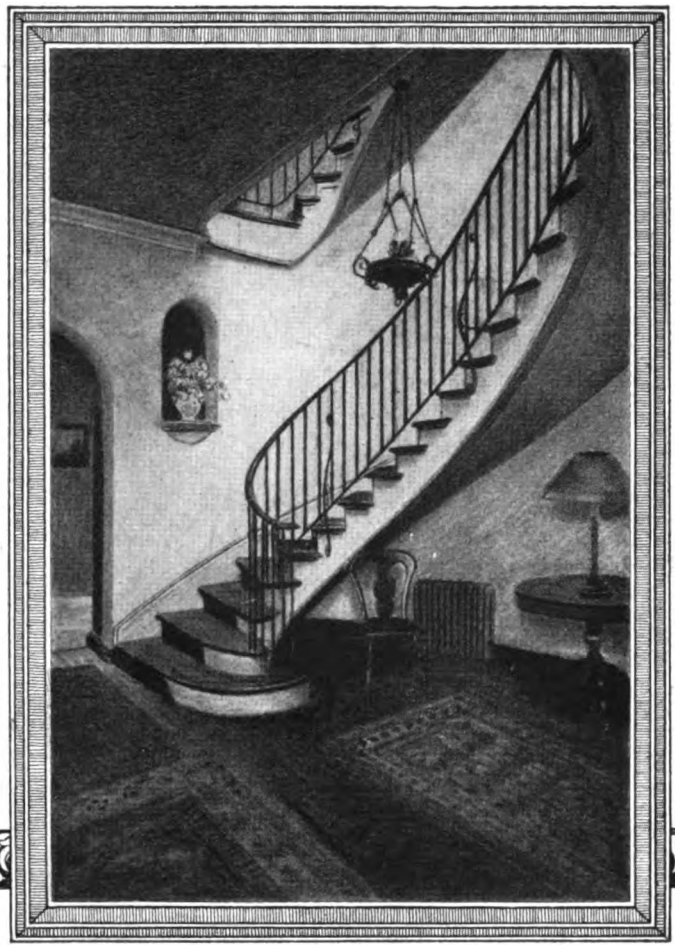
Building Age and National Builder

With Which is Incorporated

The PERMANENT BUILDER and THE BUILDERS' JOURNAL



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"Spreads like warm butter" is an expression used so often by builders, plasterers and architects in describing *Tiger Finish* that it has come into general use.

Builders know that *Tiger Finish* won't work short under the trowel and that it covers more surface than any other finishing lime.

They made this discovery years ago by *using Tiger Finish.* Continued use is justified by their experience.





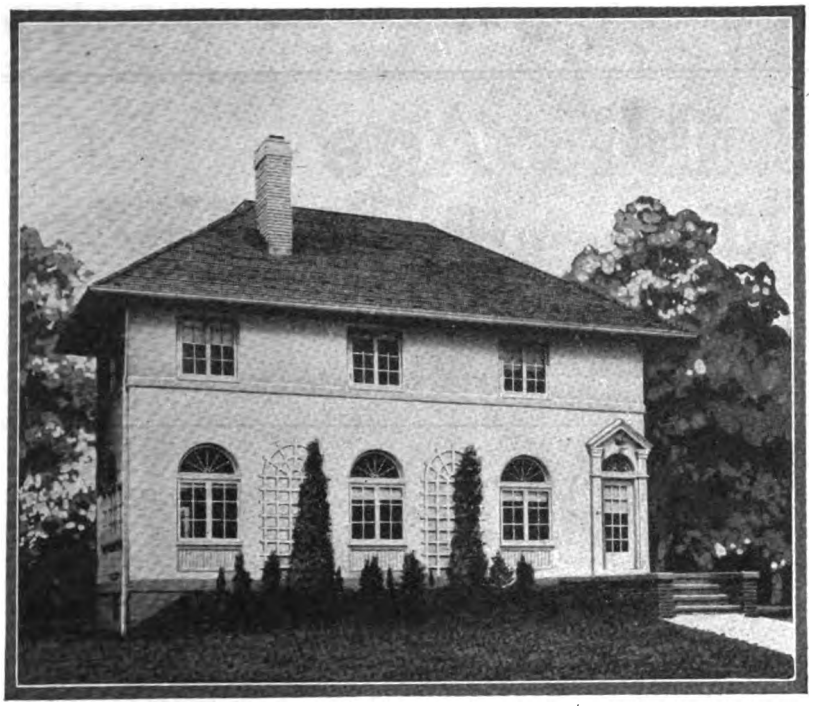
The Kelley Island Lime & Transport Co.

World's Largest Producer of Lime

Leader-News Building
CLEVELAND

TIGER FINISH WALLS

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Residence Farrington Road, E. Cleveland, Ohio. Owners and builders: The Joseph Lerong Co. Architect: Jos. L. Weinberg. Bishopric used on the Interior and Exterior.



THE DRUM

Bishopric Stucco is shipped in hermetically sealed metal drums. There is no waste or deterioration in storage and you are assured of absolutely fresh new material. The Roll and the Drum meet with the endorsement of architects, builders and satisfied homeowners throughout the world.



THE ROLL

Bishopric Base comes to the building operation in large rolls containing 100 square feet. It is easily handled, quickly cut to desired size without waste —Bishopric Base saves 25% in plaster or stucco material and increases the strength of the building.

This Wall Meets Every Test

Ease of Application, Speed of Construction Beauty, Economy, Permanency

Builders, Architects and Contractors everywhere recommend Bishopric Stucco over Bishopric Base because they know they are getting full value for their money in every respect. They are buying not only reliable, trade-marked materials, but every roll of Bishopric Base and every drum of Bishopric Stucco delivered on the job means **economy** because they are so easily and quickly handled. Bishopric Base saves mortar and is applied to the wall quicker than other materials **without waste.**

Bishopric Stucco is so easy and smooth under the trowel that more and better work is done in far less time.

The beauty of Bishopric Stucco in color and texture means increased business for the builder because every job sells another.

Just one word more: Bishopric is built to endure and that is just the best reason why each time you use Bishopric you get a new and better reputation for good building.

Let Us Send You The Story of Bishopric

"Bishopric for All Time and Clime," beautifully illustrated, comes to you for the asking. It opens to the builder an avenue to the ideal structure—ideal in beauty, permanency and living comfort. Send for it today.

Bishopric is Sold by Dealers Everywhere

The BISHOPRIC MANUFACTURING Co.
17 ESTE AVE. CINCINNATI, OHIO
NEW YORK CITY CINCINNATI OTTAWA CANADA

The BISHOPRIC MFG CO. OF CALIFORNIA
LOS ANGELES



See how It locks the Stucco

Bishopric Base is first nailed securely to the studding of the building,—a Bishopric nail to every wood strip at every bearing point.

Bishopric Stucco is first dry-mixed. Then nothing is added but clear water. Bishopric Stucco works up to a uniform mortar and is easily laid on because it works so smoothly.

Plasterers everywhere enjoy putting on Bishopric Stucco because of its unexcelled smoothness and uniformity.

The mortar goes over and in between the wood strips and locks into an inverted wedge clasp.

Note how the wood strips of Bishopric Base are embedded in a tough layer of asphalt mastic on a wood fibre background. This forms an asphalt curtain which effectively shuts out moisture, heat, cold and vermin.

BISHOPRIC STUCCO *over* BISHOPRIC BASE

"A Complete Wall Unit for all Time and Clime"

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Building Age and National Builder
With Which is Incorporated
The Permanent Builder and The Builders' Journal

Vol. XLVII, No. 7 — JULY, 1925

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ONE would scarcely believe that the attractive and substantial house at Streator, Illinois, shown above, is the result of remodelling the house at left. Not only has the value of the property been substantially increased, but the owner has also practically eliminated repairs and upkeep charges on the exterior of his home. Veneering old frame and stucco houses with Face Brick is a growing practice.

Making Old Homes Attractive

and More Economical to Own

THERE are a lot of frame and stucco houses in every community—substantially built, yet unsightly on the exterior or expensive to maintain—that can be made attractive and economical to own by applying Face Brick Veneer. The pictures above give a striking illustration of the results that can be attained.

Many contractors are finding it pays to suggest such remodelling jobs to their customers. Theatres, banks, stores and churches offer as big a field as homes.

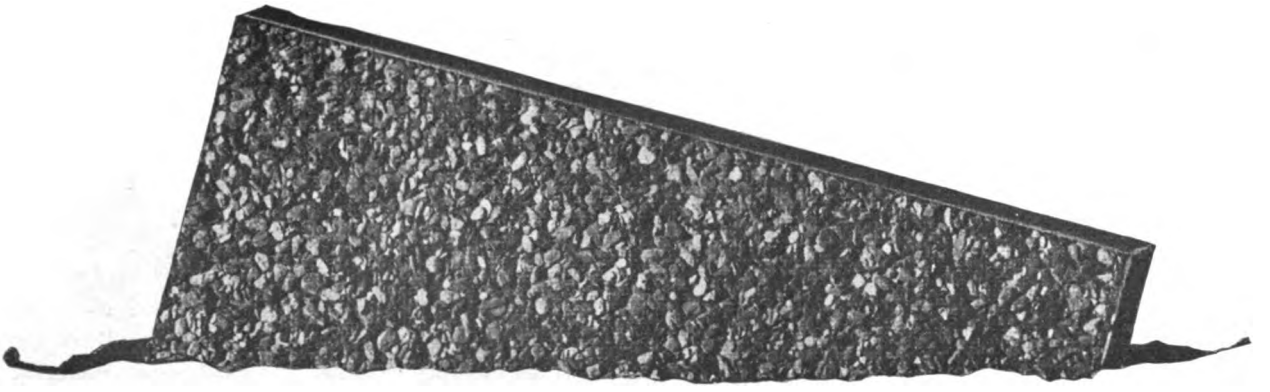
Our free booklet, "A New House for the Old," tells the contractor all he wants to know about Face Brick veneering, and also gives complete instructions for doing a good job. Send for a copy today.

THE AMERICAN FACE BRICK ASSOCIATION

1764 Peoples Life Building · Chicago, Illinois

A·F·B·A
USE FACE BRICK
—it Pays

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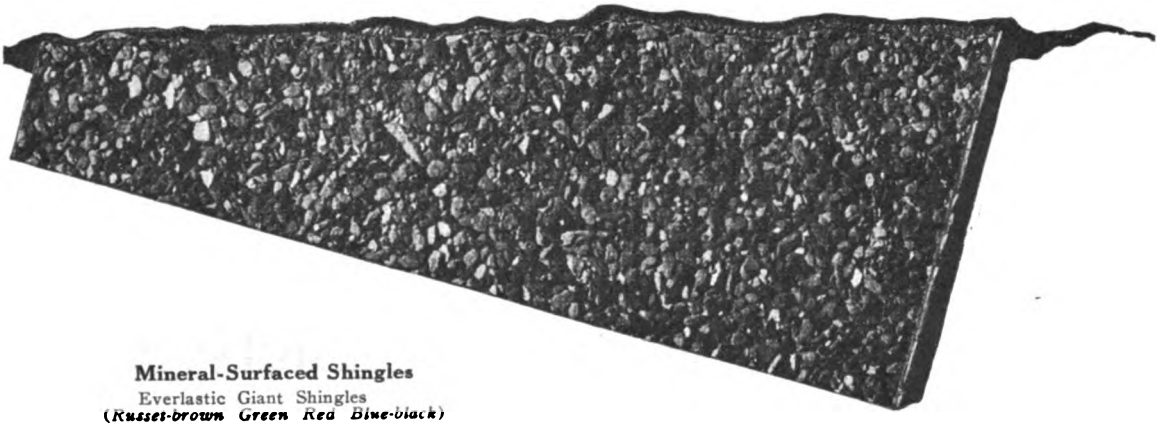
And now the Barrett Giant in rich russet brown

Your customers will welcome this new Barrett Giant Shingle. Its color—a mellow **russet brown** like an autumn landscape—is distinctive and unusual—the color home-builders everywhere have been waiting for.

What's more, Giants are profit builders for you. Extra large (12"x14"), they reduce the number of shingles and nails necessary for a roofing job. Actually 196 fewer shingles and 392 fewer nails to drive per square—a saving of practically one-half in application costs.

Barrett Giants give your customers better roofs—they're reputation-builders. Giants are permanent. They never rot or rust—never need painting or staining. Also their weight gives artistically correct shadow lines, an individuality to **each** shingle. Fire-safe and durably weather-tight, they're shingles you can recommend without one single reservation.

Ask your lumber dealer to show you the new Barrett Giant in **russet brown.**



Mineral-Surfaced Shingles

Everlastic Giant Shingles
(Russet-brown Green Red Blue-black)

Everlastic Single Shingles
Everlastic Multi-Shingles
Everlastic Octagonal Shingles
(Green Red Blue-black)

Roll Roofings

Everlastic Smooth-Surfaced
Everlastic Mineral-Surfaced
(Green Red Blue-black)

Giants are economical for reroofing too. Nail them down over almost any worn-out roof—and save time, labor and trouble.

Barrett

THE BARRETT COMPANY
40 Rector Street, New York City

IN CANADA:
The Barrett Company, Limited
2021 St. Hubert Street
Montreal, Quebec, Canada

ROOFINGS

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Chamberlin "Lifetime" Service Earns Good Will of Customers

JEFFERSON HOTEL, *Dallas, Texas*

March 7, 1925

The early part of last fall your mechanics finished equipping our building with metal weather strip, both on the wood and metal sash.

Prior to having the weatherstripping installed we were unable to heat certain rooms, especially the ones on the north side where the windows are of the Hollow Metal Type.

While we have had but one winter in which to test the efficiency of your equipment, I wish to state we were able to maintain an even temperature in these rooms, also the windows are easier to operate than formerly and the rattling has been entirely eliminated.

I consider that money spent for Chamberlin Metal Weather Strips is a good investment.

Very truly yours,

(Signed) CHAS. A. MANGOLD, V. Pres. & Mgr.,
Jefferson Hotel,
Dallas, Texas.





OLIVER J. SANDS' RESIDENCE, *Richmond, Va.*

March 18, 1925

I take pleasure in stating that the weather strips placed by you on my house about ten years ago have given the best of satisfaction, and the same are in practically as good condition today as they were when first installed.

Very truly yours,

(Signed) OLIVER J. SANDS, Pres.
American National Bank, Richmond, Va.

Chamberlin is the name of something more than a design of weather strip. It is the name of an installation and a service which gives certain definite results.

CHAMBERLIN METAL WEATHER STRIPS
SINCE 1893-THE STANDARD

When you specify "Chamberlin" you buy an installation that is *guaranteed for the life of the building.* Because of this unqualified guarantee, we stand back of every job, relieving you of all uncertainty and insuring permanent satisfaction to owners.

As installed by Chamberlin experts, trained to their work, Chamberlin Weather Strips stand the test of years. We have records of Chamberlin Weather Strip still giving perfect service after 10, 20, and 30 years of use.

CHAMBERLIN
METAL WEATHER STRIP CO., INC.

Detroit, Michigan

80 Sales and Service Branches Thruout the United States

Builders and real estate operators erecting homes for sale will find ready acceptance of the name "Chamberlin" on weatherstrips. Homes so equipped are more easily marketed, and are an important factor in maintaining the builder's reputation for sound and honest construction.

We invite realtors, builders and contractors to make use of our nation-wide sales and service organization.

New Catalog Just Out—Send for It

This book of details and specifications has been pronounced the most complete of its kind ever issued. Mail coupon for copy.

Chamberlin Metal Weather Strip Co.
Detroit, Michigan

Please send free copy of your new Detail Book. Also copy of illustrated booklet to show my clients.

Name _____

Address _____

City _____ *State* _____



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Quality to the last ounce—

The unusual natural quality of our limestone combined with an experience of over 25 years in producing hydrated lime has resulted in a finishing and all around building lime which has no superior for purity, uniformity, whiteness and easy spreading properties. Our brands may be specified and used with positive assurance of satisfaction to the architect, contractor, journeyman and the builder. Every sack of White Enamel, Gold Medal or White Lily is quality to the last ounce. There is a building supply dealer in your vicinity who handles one of our brands

THE WOODVILLE LIME PRODUCTS CO.
TOLEDO, OHIO

White Enamel
Gold Medal *and*
White Lily
Finishing Hydrated Lime

"The Quality is in the Limestone"

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The Warning

SCIENCE ADVISES EAST OF DANGER OF EARTHQUAKES

Maps Program to Cut Life and Property Loss.

New York, May 16.—[A. P.]—Earthquakes must be added to the risks of life in cities of eastern United States, is the conclusion of the Engineering Economics Foundation of Boston.



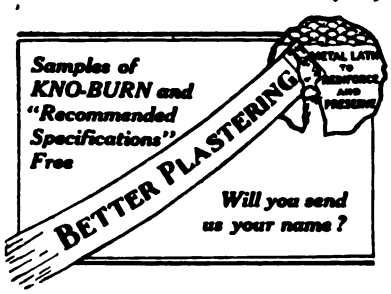
The Experience of 1906. San Francisco now builds with Metal Lath

Has the East learned the West's lesson?

EIGHT distinct shocks in the New York-Boston region,—one as intense as San Francisco's quake, have been felt since September 30, 1924. *More coming,* says the Engineering Economic Foundation of Boston.

Since 1906, architects, builders and engineers have studied earthquakes, their effects on various types of construction and materials, and remedies. In view of their discoveries, the East should certainly be able to avoid a repetition of the Frisco disaster.

Metal Lath is a prime consideration. In past tremors, it has splendidly held its plaster covering under most abnormal strains. The steel web or mesh underlying the mortar grips and tenaciously holds it, transforming each ceiling or wall into a homogeneous slab of steel and plaster. Such construction withstands not only emergency demands, but prevents cracks due to wind stress, vibration, temperature changes and other everyday causes.

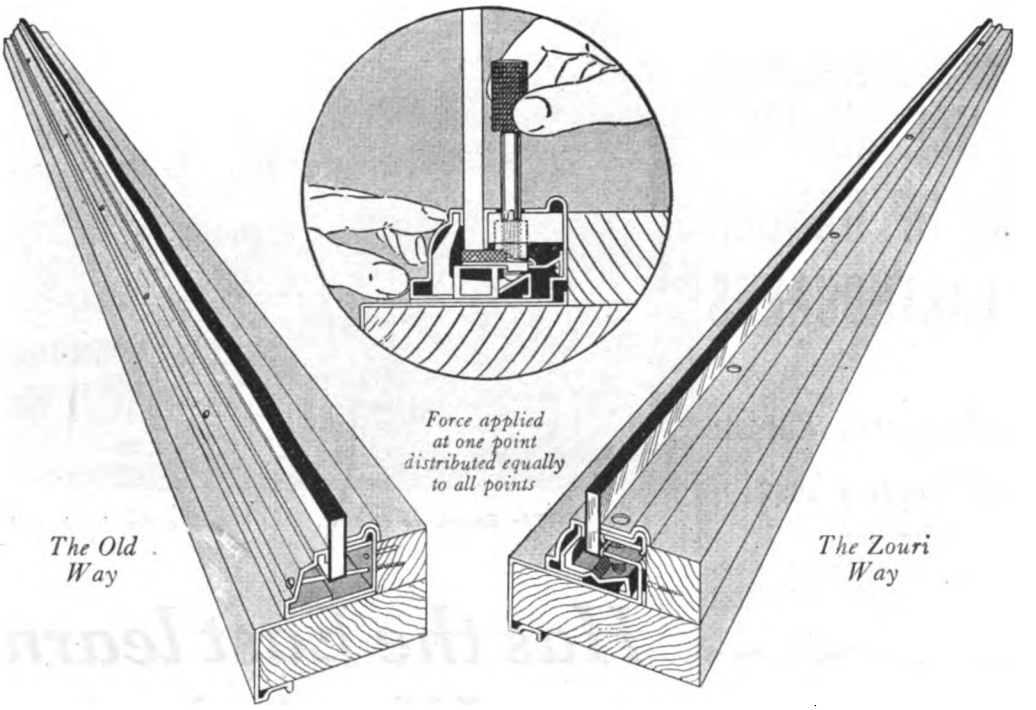


The small, diamond-meshed KNO-BURN Metal Lath fulfills every requirement of an ideal plastering base—economical in the use of plaster—perfect bonding—easily erected and plastered. In connection with Gypsum plaster it also supplies the much desired *one hour fire protection.*

NORTHWESTERN EXPANDED METAL CO.
1204 Old Colony Bldg., CHICAGO



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Zouri Indirect Key-

Straight Line Glass Setting

AT the time plate glass is set the problem of its future safety is settled. It is then that the Zouri key-set construction is most helpful. The Zouri key prevents over-pressure at any one point by distributing the force along the full length of the copper gutter that grips the glass. Pane and moulding are thus brought into precise and parallel alignment. Fractures, which might grow and finally shatter the glass, are prevented at their origin.

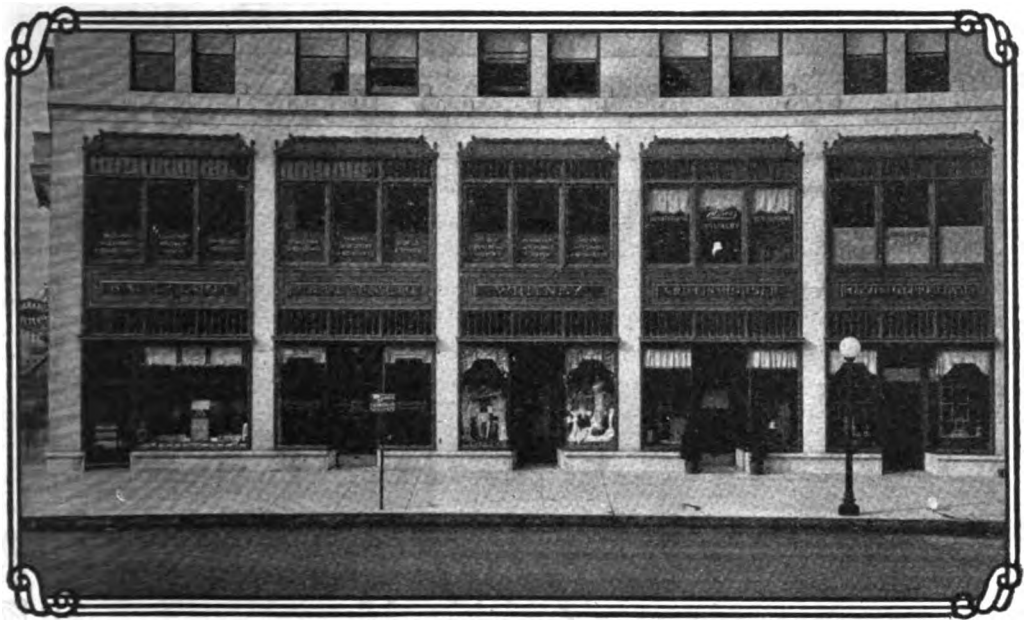


Useful detail sheets and data book

This handbook has been written for architects, contractors and builders. It deals primarily with construction and gives plans and diagrams showing best approved methods of window and display space arrangement. The detail drawings will be welcomed by specification writers. A word from you will bring them—promptly.

ZOURI KEY-SET STORE FRONT CONSTRUCTION

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Hoosier Steel & Wire Guaranty Building
Indianapolis, Indiana

-Set Store Fronts

Such safe and accurate adjustment makes possible in Zouri Store Fronts the use of a high grade of rigid copper. A substantial and handsome installation results, which brings satisfaction and profit to the contractor and builder.

Zouri's patented features, its approval by the Underwriters, and its reputation for prompt delivery have gained the support of the trade. In twelve years it has built up the largest body of distributors in the field.

Zouri Drawn Metals Company

Factory and General Offices

1608 East End Avenue, Chicago Heights, Illinois

DISTRIBUTORS IN PRINCIPAL CITIES—NAMES ON REQUEST

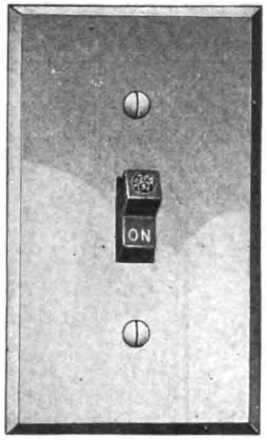
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No. 8601 SQUARE

H & H



Square Handle Tumbler *gives you a*

Style Feature and "Works" Feature

STYLE in the popular Square Handle; Style in the particular design of the H&H Square Handle.

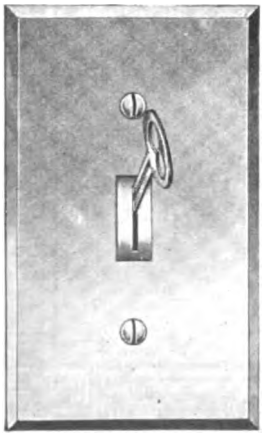
It's shaped so the plate will always fit trimly, even when the switch is not mounted "just so." Workmanlike neatness, without slowing up the work.

Indicating handle; white lettering for ON and OFF. And not the least thing of value in the lettering is the H&H mark—for what *that* indicates in the wiring job.

BACK of the H&H Square Handle—the *balanced movement* of "8601 Tumbler," smoothest and quietest of lever-actions.

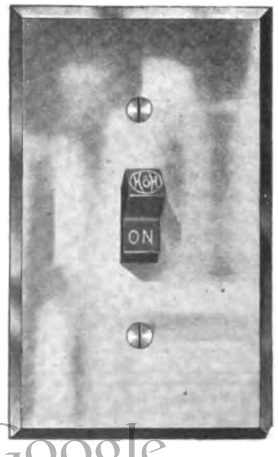
Most durable mechanically, most positive electrically of any "works" in a shallow tumbler. Puts the owner in touch with Quality he can *feel*.

Costs you no more than switches with no feature *but* handle. Competitive price, with something extra to take your equipment out of the price *class*.



The two big features—"Looks" and "Works"—you cover when you order 8601 SQUARE. Further to specify different styles (lock type, luminous or with combination plates) write for folder with full-line catalogue data.

THE HART & HEGEMAN MFG. CO.
HARTFORD, CONN.



"THE SWITCH WITH THE BALANCED MOVEMENT"

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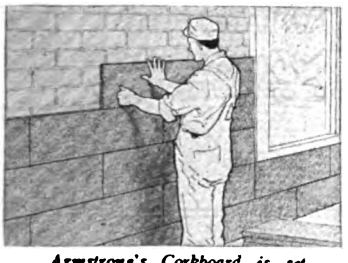


Made in boards 12 inches by 32 or 36 inches—from 1 inch to 3 inches thick.

Trade Mark



In frame construction, Armstrong's Corkboard is nailed in place like lumber.



Armstrong's Corkboard is set in Portland cement against brick or hollow tile.



No lath is required since plaster keys firmly into the surface of Armstrong's Corkboard.

Cork Lined Houses Make Comfortable Homes

HOUSES insulated with Armstrong's Corkboard are a source of lasting satisfaction and comfort to their owners, and as such they add to the prestige of their builders. Yet, they are just as easy to build as ordinary houses.

Armstrong's Corkboard is easily erected in any kind of construction — brick, stone, concrete, tile, stucco, or frame. It is structurally strong and stable, without expansion or contraction, and neither swells nor shrinks. Armstrong's Corkboard will not absorb moisture (needs no furring strips), and does not mold nor rot. It is slow-burning and a positive fire retardant. It takes and holds plaster permanently.

In summer, the house insulated with Armstrong's Corkboard is many degrees cooler than the uninsulated house. In winter, the cork insulated house is more comfortably and evenly heated with considerably less fuel, and *with a smaller heating plant than would otherwise be needed.*

Further information, including structural details, etc., will be sent free on request to contractors and builders interested in building more comfortable, healthful and economical homes.

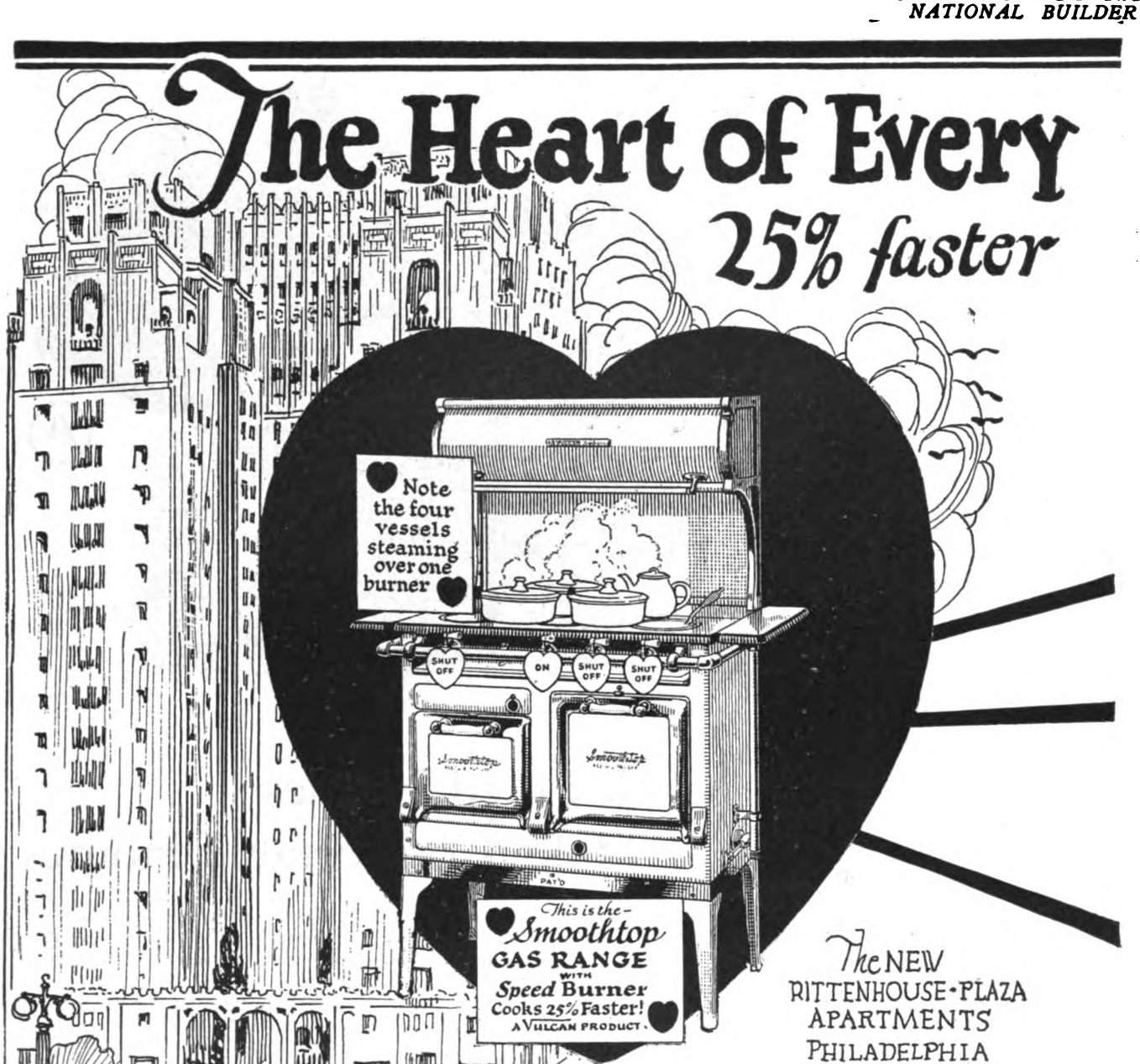
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Armstrong's Nonpareil Corkboard Insulation

for Residential, Commercial and Industrial Buildings

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In this issue of Building Age the attractive Marven Group of residences located at Margate section of New Jersey near Atlantic City are described and illustrated. Smoothtop and Oriole Gas Ranges have been used extensively in the kitchens of this high class residence development. *You will find Standard Gas Equipment Ranges are standard wherever gas is used.*

Standard Gas Equipment Corporation

Manufacturers of Smoothtop, Vulcan, Oriole and Triplex Gas Ranges

18-22 East 41st Street, New York City

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Modern Apartment

cooking with Smoothtop

REG. U S PAT OFF.

ARCHITECTS and builders appreciate the increased renting value of the home or apartment where the kitchen is equipped with the improved SMOOTHTOP Gas Range.

SMOOTHTOP Gas Ranges help to overcome renting and selling resistance. The attractive cooking features are convincing arguments that appeal strongly to the housewife who is really the important factor in buying or renting the home.

With SMOOTHTOP Gas Ranges you can easily demonstrate how each food can be cooked on top or in the oven at JUST THE RIGHT TEMPERATURE. The new speed burner generates 25% faster cooking heat than the ordinary burner. Every square inch of the smooth, roomy level top is cooking surface and can be utilized economically and efficiently. One burner can keep four vessels steaming—or the whole dinner hot. The important installation feature to consider is that it has 50% more cooking space—and requires less floor space.

SMOOTHTOP Ranges are being installed in many of the finest homes and apartments. The model apartment houses built by the Metropolitan Life Insurance Co. at Long Island City, New York, are all equipped with 2075 SMOOTHTOPS, while the famous Queensboro Corporation projects in the Jackson Heights development call for over 1000 SMOOTHTOPS. If you want to increase the renting or sales value of your property—investigate the merits of SMOOTHTOP Gas Ranges.

Write for our booklet—"How Kitchen Space was Saved In Planning." Specially prepared for architects and builders. This valuable book contains plans and specifications of various kitchen designs by noted architects of prominent building enterprises.



The Smoothtop Patented Chart gives the temperature and time required for oven cooking



Cross-section of top showing Speed Burner and Smoothtop cooking zones.

Every Square inch of the Smoothtop level roomy top is cooking surface



SMOOTHTOP No. C-444 -SE
Ideal range for the small Kitchen or Kitchenette

STANDARD GAS EQUIPMENT CORPORATION

Vulcan Division

Successors to WM. M. CRANE COMPANY

18-20 East 41st Street **New York**

Pacific Coast Distributor:
Northwest Gas & Electric Equipment Company, Portland, Ore.
Branch Offices: Los Angeles and San Francisco

NOTE—There is but ONE "SMOOTHTOP" Patented—and that is a Vulcan Product, U. S. Patents June 8, 1920; Jan. 17, 1922; April 4, 1922: other patents pending. Look for the name and trade mark.

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ROYAL

—HART AND CROUSE—



GUARANTEED—at no higher cost!

YOU owe it to yourself and to the folks who buy your houses, to investigate the ROYAL FURNACE.

ROYAL FURNACES are installed by CERTIFIED DEALERS. They are doubly guaranteed.

Manufacturer and installer unite to furnish a written pledge that every ROYAL job will render satisfactory service.

Send for complete literature and the name of your CERTIFIED DEALER.



Dealers Everywhere!

HART & CROUSE COMPANY

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BRANCH OFFICES

Boston
*Chicago
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*Warehouse in connection

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Protect your investment against RUST



MIRAMAR HOTEL, CLEVELAND, OHIO.
J. Harold MacDowell, Architect.
Fleischer Construction Co., Contractor.
No. 1087 "R. I. W." Steel Preservative Paint used.

These priming and finishing coats make steel protection permanent.

"R. I. W." Tockolith, the patented Portland cement paint, gray in color, is used only as a priming coat on iron, steel or other metal.

A finishing coat must always be applied according to the character of the finished surface required and the nature of the service expected.

An unexcelled combination for preventing chemical and electrolytic corrosion is "R. I. W." Tockolith for the priming coat and "R. I. W." Damp Resisting Paint of suitable grade and color for the finishing coat.

"R. I. W." Tockolith has the practical endorsement of the leading engineers, architects, and builders of the country. Its demonstrated efficiency has caused its adoption on the steel work of many notable structures.

No. 49 "R. I. W." Damp Resisting Paint. Black or dark olive-green. Gives a firm, elastic coating which resists corrosion by locomotive fumes and atmospheric conditions. Dries with a good gloss. Specially recommended as a finishing coat over a priming coat of "R. I. W." Tockolith."

"R. I. W." Steel Preservative Paints fulfill every requirement. Write Dept. N for full information and color card.



BUILDINGS unprotected against rust are doomed to a comparatively short life. It is a wise policy, then, to prevent the attacks of corrosion—the destructive agent to which the owners of buildings in this country pay three hundred millions of dollars annually.

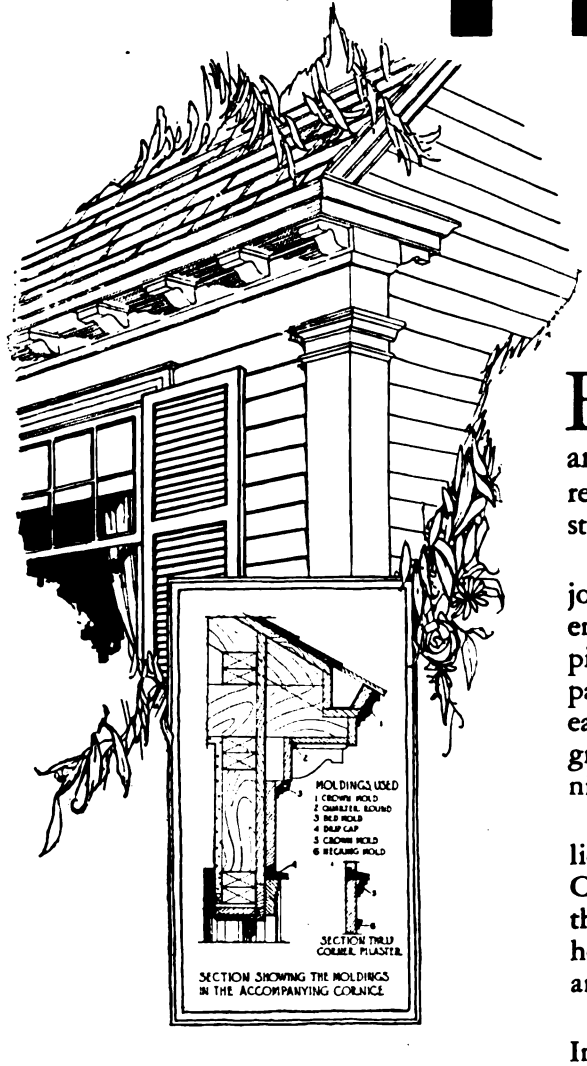
Decide now to protect new construction, and check the encroachment of rust on old buildings by the use of "R. I. W." Steel Preservative Paints. They are scientifically made to control the causes of corrosion—their use is insurance against premature decay.

Lock Brothers
INCORPORATED
Technical and Scientific Paint and Varnish Makers
Since 1848
110 EAST 42nd STREET, NEW YORK, N. Y.
Opposite Grand Central Terminal
Works: Long Island City, N. Y.

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California PINE

California White Pine (trade name) — California Sugar Pine



All the various moldings required in decorative cornices and the fine joining of air-tight, water-proof exterior construction are easily and precisely milled from these fine, soft pines. They work easily, either at the planing mill or in the hands of the carpenter.

You are invited to freely correspond with our Wood Technologist, who was formerly with the U. S. Government Forest Products Laboratory at Madison, Wisconsin. He will give you exactly the information you require, whatever your building problem.

Exteriors of Lasting Satisfaction from readily-workable woods

FOR sidings, cornices, porches, frames and other outside construction, California Pines are exceptionally well adapted. They conform readily to artistry in designing and meet every construction requirement.

Ability to hold shapes without opening up at the joints or warping out of place; freedom from tendency to split when nails are driven near the end of the piece; affinity for paint, requiring less frequent repainting; pale color, requiring fewer coats of paint; easy workability, due to soft texture and uniform grain—these outstanding characteristics give California Pines their remarkable serviceability.

Advertising in nationally-read homebuilders' publications is arousing widespread public interest in California Pines. In this way, a ready acceptance for these woods on the part of the home-builder and home-buyer is being created—a fact which architects and builders appreciate.

If you have not received your set of California Pine Information Sheets, be sure and write us. They contain technical information for specification purposes and are in convenient standard size, in a folder—ready for your files.

California White and Sugar Pine Manufacturers Association

657 Call Building · San Francisco

Also producers of

CALIFORNIA WHITE FIR, CALIFORNIA DOUGLAS FIR, CALIFORNIA INCENSE CEDAR

A425

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Wheeling

Wheeling Metal Lath

Square Corners and Straight Edges are a feature of all Wheeling Metal Lath that is appreciated alike by Architect, Contractor and the builder who "foots" the bills. A saving in lapping means economy in lath *and* better workmanship.

Wheeling Metal Lath is supplied in styles to meet every requirement and every preference—Standard Diamond Mesh Lath, Wheeling Rid-Gid Lath, Wheeling ⅜ Inch Rib Lath and Wheeling Flat Rib Lath—Samples on request.

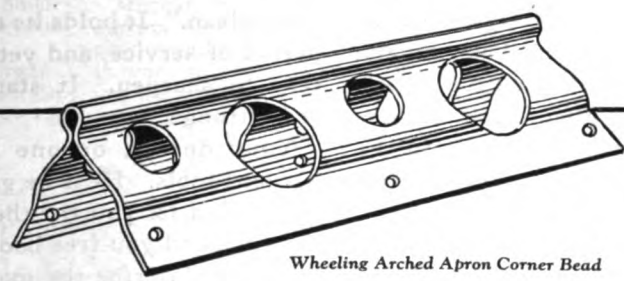
Building Materials That Save Labor

Let Wheeling meet your building needs for materials that embrace advancements and perfections in *design and manufacture.* From roof to cellar you can standardize on Wheeling products that reduce labor costs, save material and assure durability. Put your requirements up to Wheeling—or write the nearest branch.

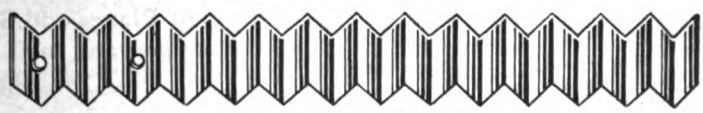
WHEELING CORRUGATING COMPANY

WHEELING, W. Va.

New York · Chicago · Philadelphia · Minneapolis
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Wheeling Arched Apron Corner Bead



Wheeling Zig-Zag Wall Tie

WHEELING BUILDING MATERIALS:

Metal Lath	Roofings	Eaves Trough
Cut Nails	Wall Ties	Corner Bead
Shingles	Wire Nails	Mason Hods
Ceilings		Conductor Pipe

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SARGENT
Tools & Hardware



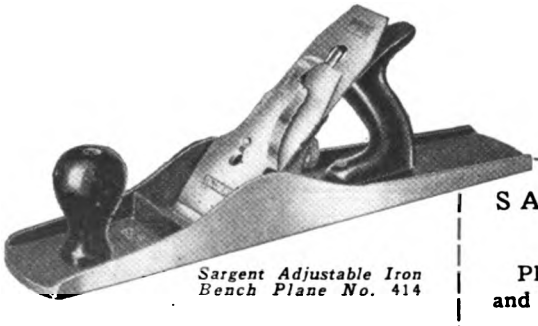
You wouldn't try to use a razor blade as the cutter of your plane

NOR a hefty axe! But you do want the cutter to combine as much as possible of the keenness of the one and the strength of the other. And that's exactly the combination we've gotten with chromium steel.

If you have ever used a Sargent Plane, you know that chromium steel is just the best metal ever put into the cutter of any plane. Every Sargent Plane will demonstrate that fact. From the smallest to the largest, they've all got cutters of this remarkable steel.

Try the Auto-Set Bench Plane No. 714, which is shown above, or the Sargent 414 (illustrated below) if that's your favorite type. The cutter goes through the toughest wood with a minimum of pressure. It cuts "clean." It holds its edge over a longer period of service, and yet is comparatively easy to sharpen. It stands hard knocks. It is strong!

Your dealer, or one nearby, handles Sargent tools. He'll be glad to show them to you and let you try them yourself. We want to send you free booklets which illustrate and describe the many special points about Sargent Planes and Squares. Simply fill in the coupon and mail it today.



Sargent Adjustable Iron Bench Plane No. 414

SARGENT & COMPANY, *Manufacturers*
52 Water Street, New Haven, Conn.

Please send me, without cost, the booklets on Sargent Planes and Squares.

Name.....

Address.....

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Morgan Plan Suggestion No. 15-A



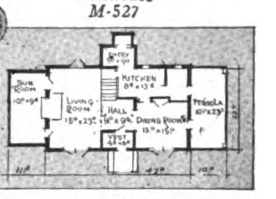
Morgan Entrance M-51½



Morgan Bookcase M-527



Morgan Colonial Stairs M-200



Main Floor Plan

A becoming entrance for every home you build

LET MORGAN-QUALITY WOODWORK
BE YOUR GUIDE TO BETTER ENTRANCES



Morgan French Doors M-831

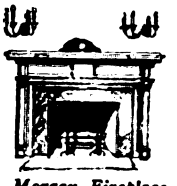
Morgan entrances, because of beautiful designing and the advantages gained by standardization, bid fair to revolutionize building practice with thousands of contractors and home builders.

The beauty of a Morgan-Quality entrance adds distinction and value to any home. It pleases the owner, increases your prestige as a good builder, multiplies the demand for your services.

The same may be said of Morgan-Quality stairways, bookcases, mantels, china closets, cupboards, cabinets, breakfast nooks, as well as doors and interior trim.

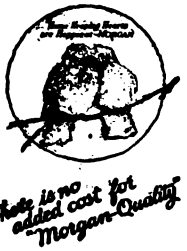
Morgan doors are quality-built with soft white pine cores. They have patented wedge dowel construction, which guarantees a door that, if given ordinary treatment, will retain its original shape, size and structural stability during the life of the building.

Morgan standardization as to sizes, designs and woods benefits the owner, but perhaps even to a greater extent the builder. It permits the Morgan organization to largely increase production, during periods of unusual demand, and promptly supply all your requirements. You avoid many delays with their attending grief and extra expense. Every piece is marked [illegible] for your protection.



Morgan Fireplace M-514

Morgan standardization reduces production costs to the minimum, making possible unusual value. It enables you to work to standard sizes, thus speeding installation, which results in more profit to you and lower cost to your client. There is no added cost for Morgan-Quality.



Home owners are being familiarized with Morgan-Quality Woodwork by means of national advertising which reaches 4,769,029 homes. The authorized Morgan dealer in your locality can give you full details. Or mail the coupon for the Morgan Price Supplement and prospectus describing "Building with Assurance."

"MORGAN-QUALITY"

STANDARDIZED WOODWORK

MORGAN WOODWORK ORGANIZATION

MORGAN COMPANY, Oshkosh, Wis.; New York City.

MORGAN SASH & DOOR COMPANY, Chicago, Ill.; Detroit, Michigan; Cleveland, Ohio.

MORGAN MILLWORK COMPANY, Baltimore, Md.; Jersey City, N. J.; Greensboro, N. C.

MORGAN

Look for this mark on every Morgan Product



"Building with Assurance"

Master Book on Home Building

Whether you are building homes to cost $3,000 or $50,000, you need this big, 440-page Master Book, "Building with Assurance" (Second Edition). It contains specific, practical, USABLE information to help you cut costs and save time.

In this great book are shown homes of all types. There is page after page of attractive bungalows and houses, in full colors, with floor plans. Besides, you get help on room arrangement, interior decoration, floor coverings, lighting, heating, plumbing and landscaping. Over 15,000 architects, contractors, and dealers indorse and use it for daily reference.

Mail coupon for prospectus

Our prospectus tells all about it—shows beautiful homes in color, with floor plans. The prospectus is gladly sent to those who mail the coupon.

Address nearest office, Dept. U-7.

Morgan Sash & Door Company, Chicago, Ill.
Morgan Company, Oshkosh, Wisconsin.
Morgan Millwork Company, Baltimore, Md.

Gentlemen: Please send me at once copy of your beautiful prospectus which describes "Building with Assurance" (Second Edition). Please include the Price Supplement.

Name .....

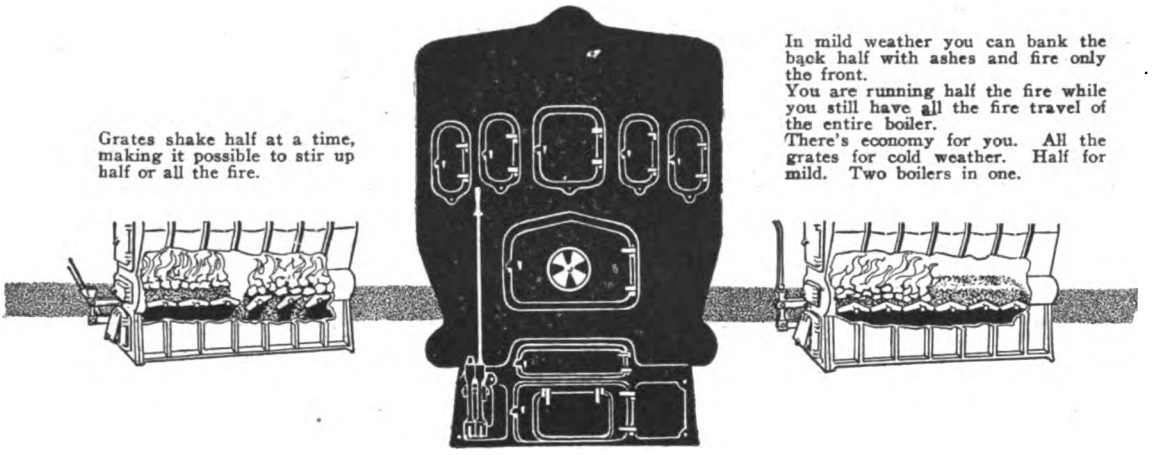
Address .....

Town ..... State .....

Business .....

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Burnham Cosy Comfort Heat



Why One Burnham Is Equal to Two

RUNNING a big boiler when there's only work for a small one, eats up too much coal.

Forcing a small boiler when there's work for a big one, eats up just as much too much.

It hits pocketbooks too hard, either way.

It does if it isn't a Burnham Square.

It doesn't if it is, because the Burnham is made so it's two boilers in one. A small one inside the big one.

The grates do it.

Read what it says over the illustration cuts and see for yourself.

Send for "Letters To and Fro," and get the real meat of this boiler question.

Burnham Boiler Corporation

Irvington, N. Y.

Representatives in all Principal Cities

Canadian Offices:
Harbor Commission Bldg., Toronto
124 Stanley Street, Montreal

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"Applied in HALF the Time"

Says this builder of CYCLONE SHINGLES

"Builder of Better Built Bungalows"

NELSON O. OUTCALT

CONTRACTOR AND BUILDER—JOBBING A SPECIALTY

PHONE PARK 1000 W 4618 DOBERRER AVENUE

Winton Place, Ohio

March 9th, 1925.

The Baldwin Tarvin Co.,
618 Carr Street,
Cincinnati, Ohio

Gentlemen:-

After having put on several Cyclone Shingle roofs, I can advise you that they have been very satisfactory. In my opinion the appearance of the Cyclone Shingle on the roof is very good and there is no question but that this shingle makes a tight waterproof roof which should last for many years.

Regarding the cost of application I find that I can apply Cyclone Shingles in less than one-half the time which it takes to put on standard individual shingles.

Yours very truly,

Nelson O. Outcalt



Cyclones cost no more than strips

Cyclones are the fastest laid shingles in the world. They require only half the time of individual shingles—two-thirds the time of 4 in 1 strips. Consider the savings!

Each *Cyclone* Shingle is doubly locked, making them practically wind-proof. Also, their exceptionally long head lap (6 7/10 inches) assures a really water-tight roof.

Only 72 Shingles and 216 Nails to the Square!

It takes 424 individual shingles and 848 nails to roof a square. When 4 in 1 strips are used, 112 shingles and 560 nails are required. Take your pencil and figure out the saving you can make with *Cyclones*. It will cause you to sign and mail the coupon for prices and further interesting facts.

FORD ROOFING PRODUCTS CO.
535-539 S. Franklin Street : Chicago, Ill.

FORD ROOFING PRODUCTS CO., Dept. 307
535-539 South Franklin Street, Chicago, Illinois
Please send me details of the *Cyclone* Shingle and full particulars, FREE and absolutely without obligation.

Name _____

Address _____

Business _____

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A Handy Paint Remover

A COMBINATION BLOW TORCH, BRANDING and SOLDERING IRON IN ONE



for the Contractor and Builder

This combination blow torch is one of the handiest work tools ever put on the market and particularly useful to contractors, builders and painters on remodeling and repainting jobs where clean and smooth surfaces are absolutely essential. The flamespreader attachment easily removes the paint.

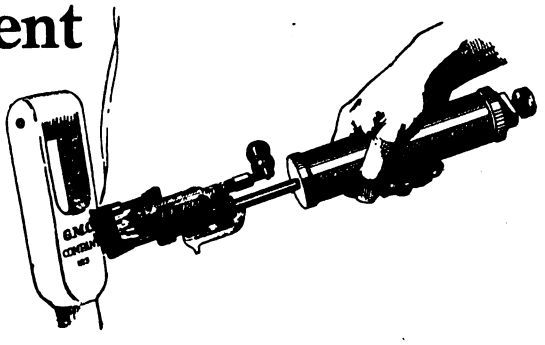
Likewise it can be used for branding and soldering and with the soldering points attachment it is a blow torch and solder. The service this tool renders pays for itself in no time.

Brand Your Equipment



Set your own Brand-Type and Number

The handy paint remover can be utilized for branding your name or trademark on each piece of equipment. This prevents valuable property from being stolen and avoids unnecessary loss by mistaken ownership. Our complete booklet describes its many practical uses in detail.



DEALERS

Don't fail to write for our profitable proposition and literature on this fast selling combination blow torch.

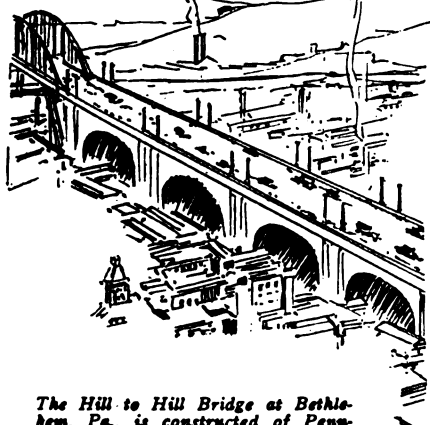
COMBINATION BLOW TORCH MFG. CO.

2806 W. VAN BUREN STREET CHICAGO, ILL.

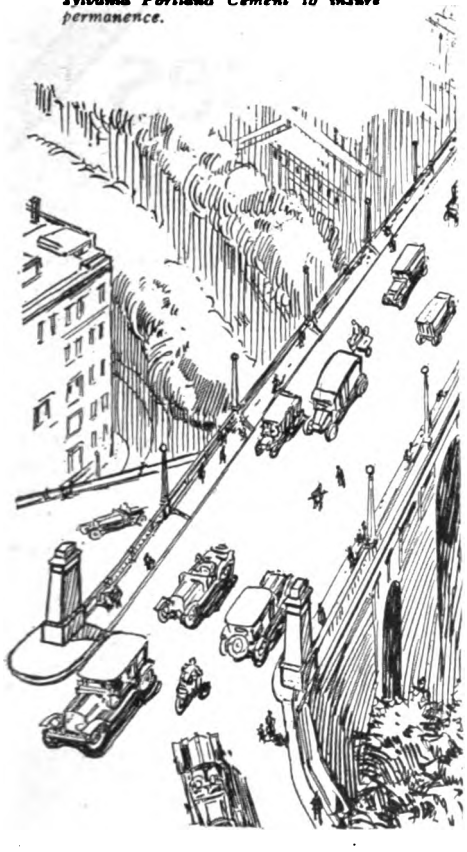
Ten days' free trial to reputable contractors and builders

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As everlasting as the hills it connects



The Hill to Hill Bridge at Bethlehem, Pa., is constructed of Pennsylvania Portland Cement to insure permanence.



THE magnificent Hill to Hill Bridge across the Lehigh River at Bethlehem, Pennsylvania, is more than a bridge. It is an enduring concrete monument to the farsightedness of its promoters and to the skill of the architects and engineers who constructed it.

The use of Pennsylvania Portland Cement is a guarantee of reliability. Not only does it exceed U. S. Government standards but in the entire process of manufacture, from the selection of the finest cement rock to the final product, every step must insure quality. You may be sure that no better cement can be made by any process or by any method.

The Pre-test

Thirty days or more before any Pennsylvania Portland Cement is ground for shipment, we thoroughly test the fused clinker from which cement is made. A miniature grinding mill installed in our laboratories duplicates actual process of manufacture. This makes it possible to know that the quality of Pennsylvania Portland Cement is certain *every time*. Every barrel exceeds the rigid U. S. Government standard requirements.

This reputation for quality has been the determining factor for the selection of Pennsylvania Portland Cement by architects and engineers in such important work as the New York and Brooklyn subways, the Hill to Hill bridge at Bethlehem, Pa., the Polo Grounds, the Bear Mountain Bridge, The American News Co. Building and the approaches to the Vehicular Tunnels.

Mail the coupon for your free set of the handy library "More Profits in Cement." It contains valuable information for all cement users.

PENNSYLVANIA CEMENT COMPANY

Offices:

New York
Boston
Philadelphia
Buffalo

Plants: Bath, Pennsylvania; Portland Point, New York

PENNSYLVANIA
PORTLAND CEMENT

Pennsylvania Cement Company, Dept. A-4,
131 East 40th Street, New York City.
Please send me the handy library "More Profits in Cement."—FREE.

Name .....
Street .....
City .....
State .....

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This Roof helps the Builder to sell more Houses

Dear Mr. Builder:

A good sized group of editors, with their articles on "Better Homes," have for years been paving the way for you.

Home-buyers are now keen to observe and value the permanent and substantial roof—one that will not curl, that cannot rot or burn and won't ever require paint. You have something that stands out in contrast with cheaply built houses when you put on

Ambler Asbestos Shingles

Don't confound them with cheap, flexible shingles that curl or flake off. Ambler Asbestos Shingles are strong, solid slabs that get stronger as they age. Composed entirely of asbestos and hydraulic cement—materials that have already gone through fires hotter than any dwelling ever has to stand. Manufactured under enormous hydraulic pressure by a process that eliminates porous spots.

Natural (Newport) Gray, Indian Red, Moss Green, Spanish Brown, Blue-black and other colors. American, French and Honeycomb styles in various thicknesses and sizes. Extra-thick stock with broken-butt edges, using shingles of two or three different colors, produce color-blend roofs of unusual beauty.

We have some samples here ready for you. Let us send them and tell you of building operations made distinctive by the use of Ambler Asbestos Shingles.

Asbestos
Shingle, Slate & Sheathing
Company

Department C **Ambler, Penna.**

Branch Offices:—Baltimore, Boston, Buffalo, Chicago, Cincinnati, Columbus, Detroit, Cleveland, Minneapolis, New York, Omaha, Philadelphia, Pittsburgh, Washington, Wilkes-Barre; Toronto, Can.; Havana, Cuba.

Southwestern Distributor:—R. V. Aycock Co., Kansas City, St. Louis, Tulsa, Houston.

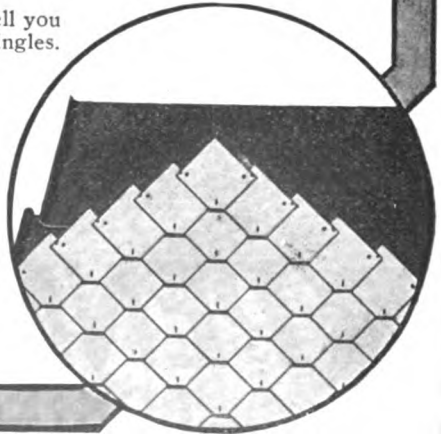
California Representative:—J. A. Drummond, Los Angeles, San Francisco, Fresno.

H. G. Sperry & Company, Utah, Idaho, Nevada and Washington Representative: Offices—Salt Lake City and Seattle.

F. T. Crowe & Company, Washington Representative: Offices—Seattle and Tacoma.

Dixie Asbestos Co., Birmingham, Ala.

Other distributors throughout the country.



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FAIRBANKS-MORSE HOME WATER PLANTS





Water Service
beyond the city mains





No longer is the home owner who is beyond city water mains content to be without the great modern convenience of water under pressure. Nor must he forego the greater health, happiness and sanitation that are brought about by running water. At a cost of merely a few cents a day he can have water under pressure in bathroom, kitchen, laundry, garage, barn, watering trough—*any place.*

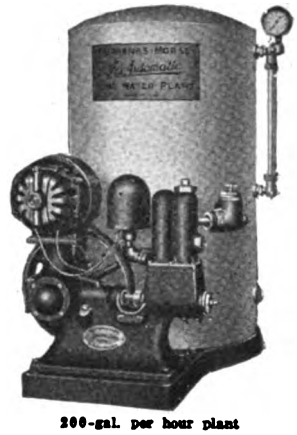


No matter where the home is located there is a Fairbanks-Morse Home Water Plant to suit the requirements. There are electric and engine driven plants for drawing water from any source—lake, spring, stream, shallow well, deep well, cistern. The electric plants are automatic in operation—self-starting, self-priming, self-oiling. Built in sizes 120 to 5000 gallons per hour.



Don't overlook this vitally important matter of water under pressure when you build homes beyond the city mains. An extensive national advertising campaign in leading publications is carrying the message of Fairbanks-Morse Home Water Plants to the prospective home owners in your territory. We are thus making it easier for you to include water under pressure in the specifications.

Write for our latest literature, including a valuable 32-page Home Water Service Book which is of particular interest to architects, builders and home owners.



200-gal. per hour plant
"It's Automatic"

PRICES

120 gallons per hour capacity pump, 60 cycle motor, 8-gallon galvanized tank, complete, $84.75, list.

200 gallons per hour capacity pump, 60 cycle motor, 35-gallon galvanized tank, complete, $128.00, list.

Above prices are cash f. o. b. factory. Also larger sizes, for engine or electric drive, correspondingly low priced.

FAIRBANKS, MORSE & CO.

Manufacturers ***Chicago, U. S. A.***

Fairbanks-Morse Products F M *"Every Line a Leader"*

Branches and Service Stations covering every State in the Union.

Pin This to Your Letterhead

FAIRBANKS, MORSE & CO., Dept. N-7,
900 South Wabash Avenue, Chicago, U. S. A.
Send latest literature and complete information concerning Fairbanks-Morse Home Water Plants.

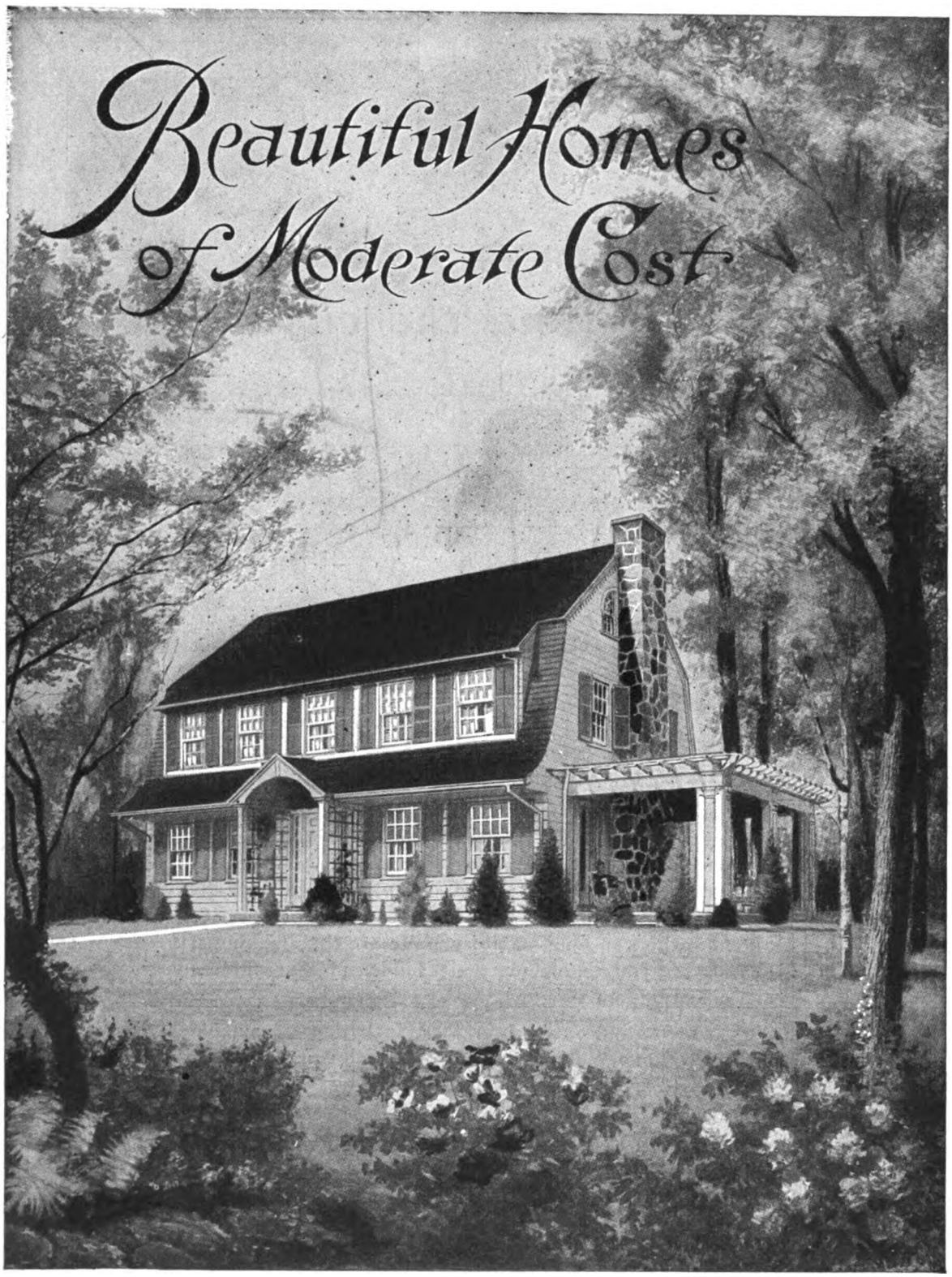
(927)

Name.....

Address.....

City.....State.....

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44 designs by nationally-known architects. Complete blue print plans and specifications available at nominal cost for each design.

Practical, beautiful, economical types of 1-and 2-family houses and bungalows—frame, brick, stone, hollow tile, etc.

Besides homes, the book shows Garages, Pergolas, Furniture, and contains articles on Finance, Landscaping, Wiring, Heating and Plumbing. A most unusual plan book.

100 Pages—165 Illustrations—9x12 Inches
Heavy Paper Covers—$1.00

COUPON

.....1925

Building Age and National Builder,
239 West 39th Street, New York City.

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"Beautiful Clothes Closets"—

is the title of this new, informative brochure on modern closets. It illustrates and describes fully how you can use inexpensive Knape & Vogt Clothes Closet Fixtures to increase the value and desirability of homes, hotels, clubs and other buildings.

Modern, convenient clothes closets are often the standard by which a house is judged. This free folder shows you exactly how to provide the utmost in closet beauty and convenience at very slight cost. Just sign and return the coupon below.

Knape & Vogt Mfg. Co.

GRAND RAPIDS, MICH.

Knape & Vogt fixtures are very inexpensive. They are sold in hardware stores everywhere, but if you are unable to find your local dealer, order from us direct.

PRICES

inch	$4.00	22 inch	$5.20
inch	4.30	24 inch	5.50
inch	4.60	26 inch	5.80
inch	4.90	28 inch	6.10

KNAPE & VOGT MFG. CO., Grand Rapids, Mich.

Please send me your Free Booklet, "Beautiful Clothes Closets," and your free blue print folder, "Plans for Modern Clothes Closets," showing many different installation plans.

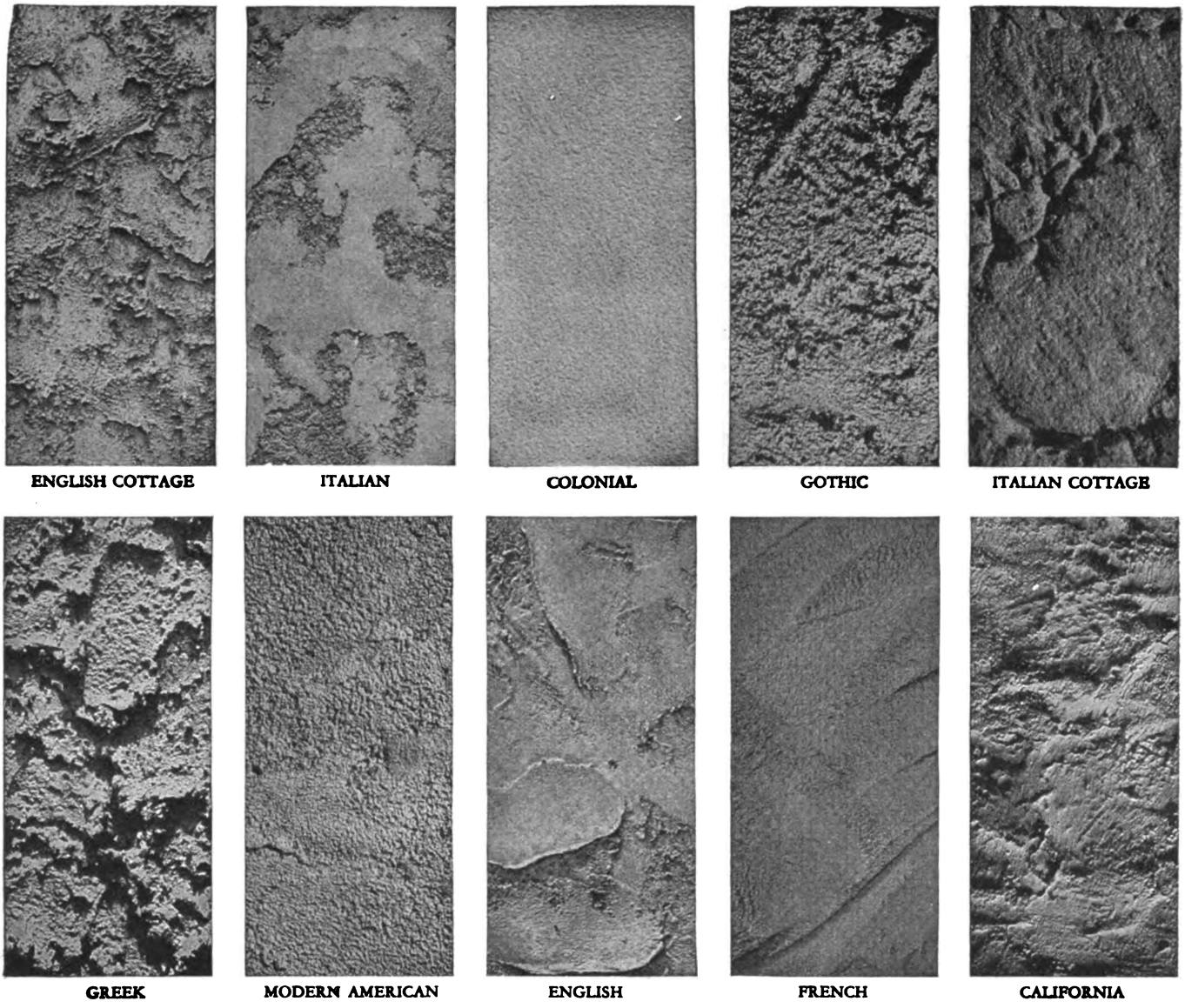
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Name .....

Address .....

City .....

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The Portland Cement Stucco textures here shown are taken from photographs of actual stucco jobs. Any competent workman in the plastering trade can reproduce these beautiful, permanent and economical finishes.

A Texture for Each Period

Controlled and directed by the creative genius of the architect, Portland Cement Stucco assures a range of beauty obtainable with no other material. It makes certain a texture and tint that complete harmoniously the style of the period in which the structure is designed. Have you received your copies of "Portland Cement Stucco Textures" and "Portland Cement Stucco"? If not, send for them today. Address the nearest office listed below.

PORTLAND CEMENT ASSOCIATION

A National Organization to Improve and Extend the Uses of Concrete

		COLUMBUS	DETROIT	LOS ANGELES	NEW ORLEANS	PHILADELPHIA		
	BOSTON	DALLAS	INDIANAPOLIS	MILWAUKEE	NEW YORK	PITTSBURGH	SAN FRANCISCO	
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Our Booklets are sent free in the United States, Canada and Cuba only

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Residence at 611 Cliveden Avenue, Germantown, Philadelphia. Architect and Builder, Mr. Don Peters, Philadelphia. Owner, Mr. F. H. Williams, Philadelphia. Kitchen equipped with Direct Action Lorain-equipped Gas Range.



Plan HAPPY Homes!

CONVENIENCE, health and happiness can be planned right into your houses by specifying the very best time-saving, labor-lightening equipment—especially for the kitchen. So much depends upon properly cooked food and smooth-running kitchen affairs that you should always specify Gas Ranges equipped with the famous Lorain (Red Wheel) Oven Heat Regulator.

The Lorain is a thermostat built into the stove. It measures and controls automatically the heat of the oven. It is the *original* oven heat regulator, invented, manufactured, sold and *guaranteed* by American Stove Co. You can always tell a Lorain-equipped Gas Range by the Red Wheel.

Each year, in over thirteen hundred schools and colleges, thousands of young women are taught to cook by the aid of the Red Wheel, and these young women will soon be buying or renting homes of their own.

In thousands upon thousands of buildings—churches, lodges, schools, apartments and houses, Lorain-equipped Gas Ranges are giving efficient, economical service, reflecting credit upon the architects and builders responsible for the installation.



Type of Direct Action Lorain-equipped Gas Range in the residence pictured above.

These famous gas stoves are equipped with the Lorain Oven Heat Regulator: Clark Jewel, Dangler, Direct Action, New Process, Quick Meal and Reliable. They are made in every approved size, style and finish.

For specific data see 19th edition, Sweet's Catalog, pages 2497-2506 inclusive. Additional information sent on request.

AMERICAN STOVE COMPANY, 222 Chouteau Ave., St. Louis, Mo.

Largest Makers of Gas Ranges in the World

LORAIN OVEN HEAT REGULATOR

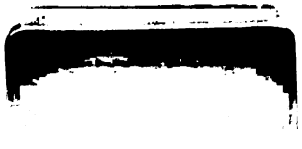
One easy turn of the Lorain Red Wheel gives the housewife a choice of any measured and controlled oven heat for any kind of oven cooking or baking.



Unless the Regulator has a Red Wheel it is NOT a LORAIN

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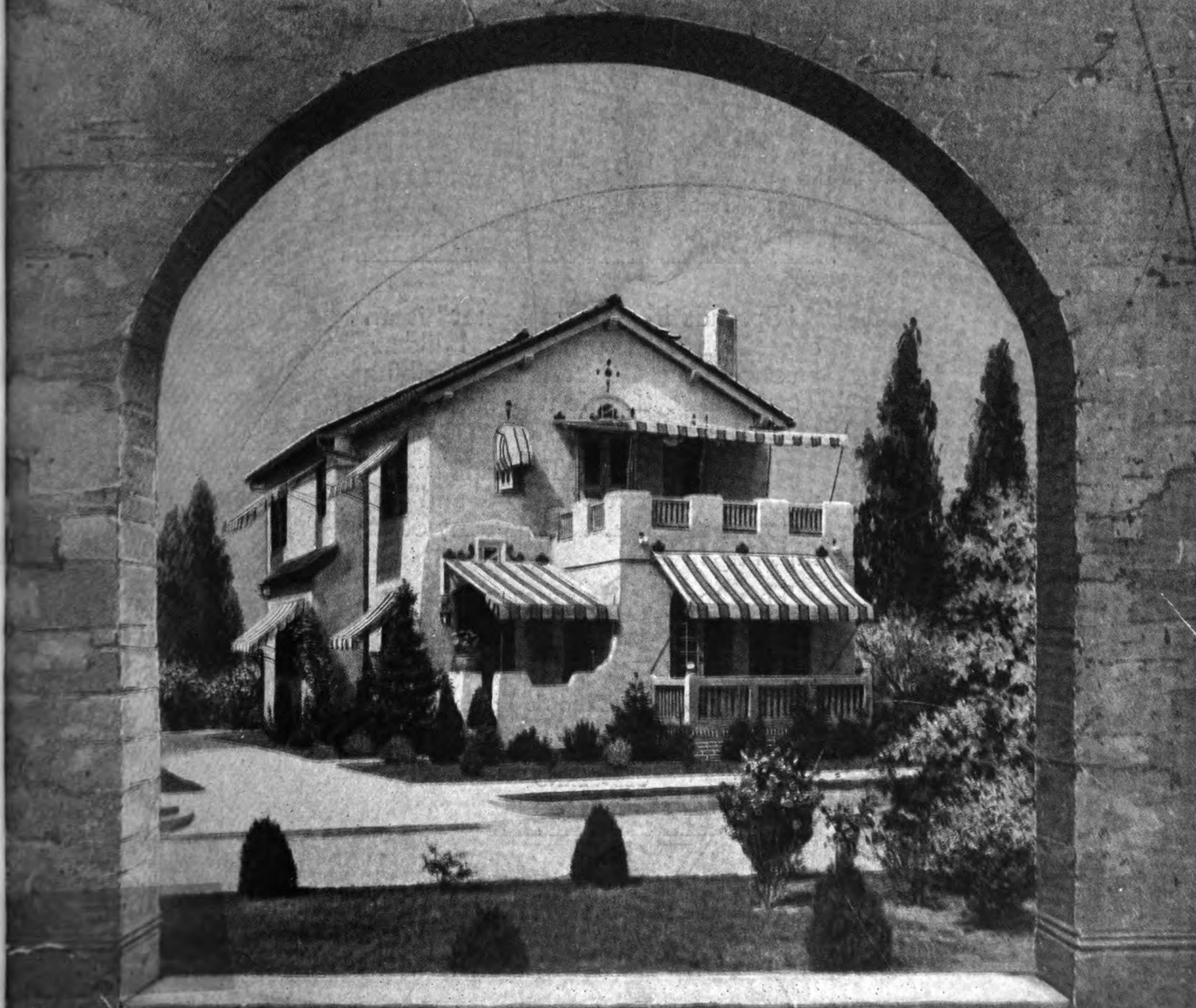
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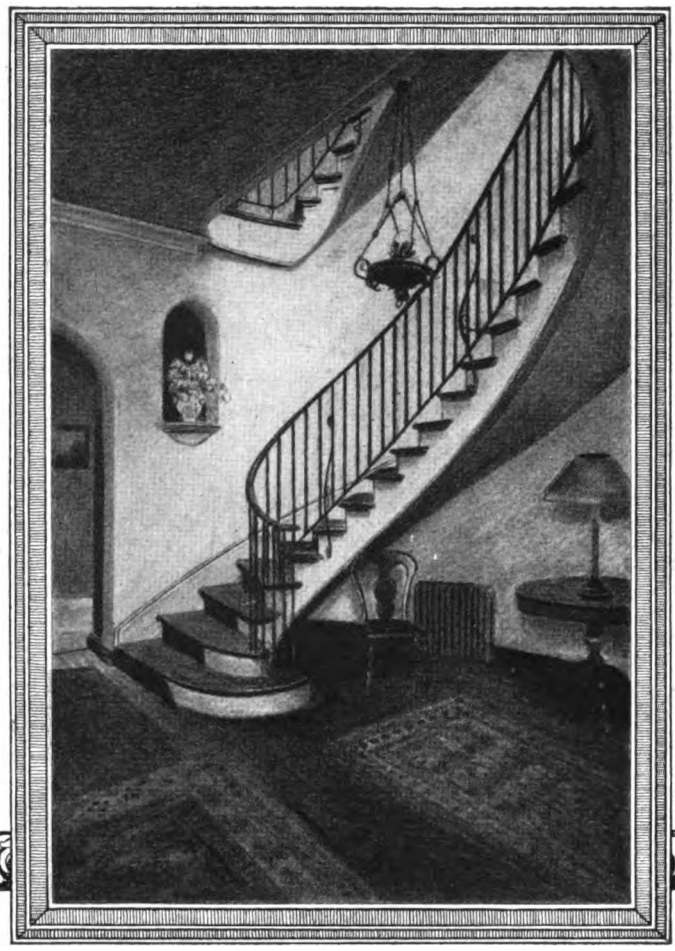
The Permanent Builder and The Builders' Journal



35 Cents

July 1925

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"Spreads like warm butter" is an expression used so often by builders, plasterers and architects in describing *Tiger Finish* that it has come into general use.

Builders know that *Tiger Finish* won't work short under the trowel and that it covers more surface than any other finishing lime.

They made this discovery years ago by *using Tiger Finish.* Continued use is justified by their experience.





The Kelley Island Lime & Transport Co.

World's Largest Producer of Lime

Leader-News Building
CLEVELAND

TIGER FINISH WALLS

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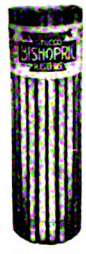


Residence Farrington Road, E. Cleveland, Ohio. Owners and builders: The Joseph Lareng Co. Architect: Jos. L. Weinberg. Bishopric used on the Interior and Exterior.



THE DRUM

Bishopric Stucco is shipped in hermetically sealed metal drums. There is no waste or deterioration in storage and you are assured of absolutely fresh new material. The Roll and the Drum meet with the endorsement of architects, builders and satisfied homeowners throughout the world.



THE ROLL

Bishopric Base comes to the building operation in large rolls containing 100 square feet. It is easily handled, quickly cut to desired size without waste —Bishopric Base saves 25% in plaster or stucco material and increases the strength of the building.

This Wall Meets Every Test

Ease of Application, Speed of Construction Beauty, Economy, Permanency

Builders, Architects and Contractors everywhere recommend Bishopric Stucco over Bishopric Base because they know they are getting full value for their money in every respect. They are buying not only reliable, trade-marked materials, but every roll of Bishopric Base and every drum of Bishopric Stucco delivered on the job means **economy** because they are so easily and quickly handled. Bishopric Base saves mortar and is applied to the wall quicker than other materials **without waste.**

Bishopric Stucco is so easy and smooth under the trowel that more and better work is done in far less time.

The beauty of Bishopric Stucco in color and texture means increased business for the builder because every job sells another.

Just one word more: Bishopric is built to endure and that is just the best reason why each time you use Bishopric you get a new and better reputation for good building.

Let Us Send You The Story of Bishopric

"Bishopric for All Time and Clime," beautifully illustrated, comes to you for the asking. It opens to the builder an avenue to the ideal structure—ideal in beauty, permanency and living comfort. Send for it today.

Bishopric is Sold by Dealers Everywhere

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NEW YORK CITY CINCINNATI OTTAWA, CANADA

The BISHOPRIC MFG CO. OF CALIFORNIA
LOS ANGELES



See how It locks the Stucco

Bishopric Base is first nailed securely to the studding of the building,—a Bishopric nail to every wood strip at every bearing point.

Bishopric Stucco is first dry-mixed. Then nothing is added but clear water. Bishopric Stucco works up to a uniform mortar and is easily laid on because it works so smoothly.

Plasterers everywhere enjoy putting on Bishopric Stucco because of its unexcelled smoothness and uniformity.

The mortar goes over and in between the wood strips and locks into an inverted wedge clasp.

Note how the wood strips of Lishopric Base are embedded in a tough layer of asphalt mastic on a wood fibre background. This forms an asphalt curtain which effectively shuts out moisture, heat, cold and vermin.

BISHOPRIC STUCCO *over* BISHOPRIC BASE

"A Complete Wall Unit for all Time and Clime"

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Building Age and National Builder

With Which is Incorporated The PERMANENT BUILDER and THE BUILDERS' JOURNAL

Vol. XLVII, No. 7 — JULY, 1925

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ONE would scarcely believe that the attractive and substantial house at Streator, Illinois, shown above, is the result of remodelling the house at left. Not only has the value of the property been substantially increased, but the owner has also practically eliminated repairs and upkeep charges on the exterior of his home. Veneering old frame and stucco houses with Face Brick is a growing practice.

Making Old Homes Attractive

and More Economical to Own

THERE are a lot of frame and stucco houses in every community—substantially built, yet unsightly on the exterior or expensive to maintain—that can be made attractive and economical to own by applying Face Brick Veneer. The pictures above give a striking illustration of the results that can be attained.

Many contractors are finding it pays to suggest such remodelling jobs to their customers. Theatres, banks, stores and churches offer as big a field as homes.

Our free booklet, "A New House for the Old," tells the contractor all he wants to know about Face Brick veneering, and also gives complete instructions for doing a good job. Send for a copy today.

THE AMERICAN FACE BRICK ASSOCIATION

1764 Peoples Life Building · Chicago, Illinois

A·F·B·A
USE FACE BRICK
—it Pays

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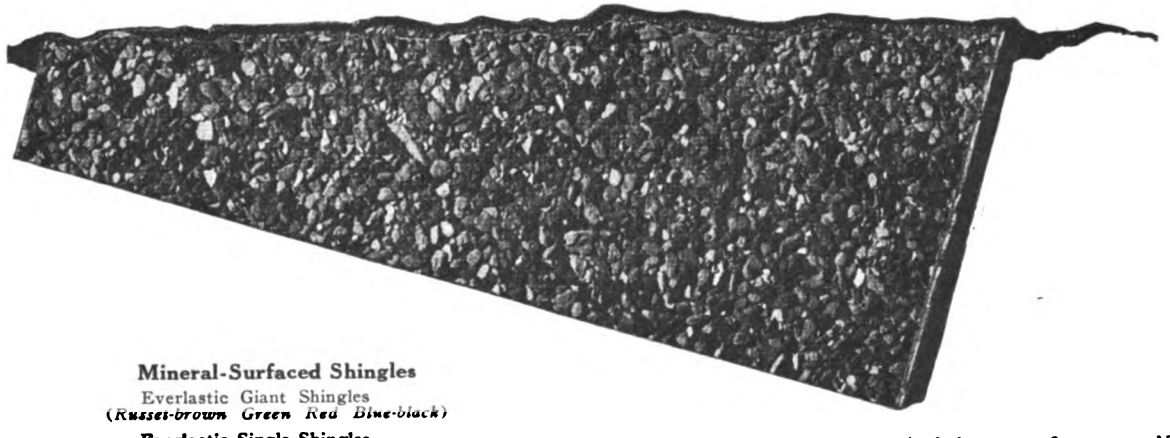
And now the Barrett Giant in rich russet brown

Your customers will welcome this new Barrett Giant Shingle. Its color—a mellow **russet brown** like an autumn landscape—is distinctive and unusual—the color home-builders everywhere have been waiting for.

What's more, Giants are profit builders for you. Extra large (12"x14"), they reduce the number of shingles and nails necessary for a roofing job. Actually 196 fewer shingles and 392 fewer nails to drive per square—a saving of practically one-half in application costs.

Barrett Giants give your customers better roofs—they're reputation-builders. Giants are permanent. They never rot or rust—never need painting or staining. Also their weight gives artistically correct shadow lines, an individuality to **each** shingle. Fire-safe and durably weather-tight, they're shingles you can recommend without one single reservation.

Ask your lumber dealer to show you the new Barrett Giant in **russet brown.**



Mineral-Surfaced Shingles

Everlastic Giant Shingles
(Russet-brown Green Red Blue-black)

Everlastic Single Shingles
Everlastic Multi-Shingles
Everlastic Octagonal Shingles
(Green Red Blue-black)

Roll Roofings

Everlastic Smooth-Surfaced
Everlastic Mineral-Surfaced
(Green Red Blue-black)

Giants are economical for reroofing too. Nail them down over almost any worn-out roof—and save time, labor and trouble.

Barrett

THE BARRETT COMPANY
40 Rector Street, New York City

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Montreal, Quebec, Canada

ROOFINGS

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Chamberlin "Lifetime" Service Earns Good Will of Customers

JEFFERSON HOTEL, *Dallas, Texas*

March 7, 1925

The early part of last fall your mechanics finished equipping our building with metal weather strip, both on the wood and metal sash.

Prior to having the weatherstripping installed we were unable to heat certain rooms, especially the ones on the north side where the windows are of the Hollow Metal Type.

While we have had but one winter in which to test the efficiency of your equipment, I wish to state we were able to maintain an even temperature in these rooms, also the windows are easier to operate than formerly and the rattling has been entirely eliminated.

I consider that money spent for Chamberlin Metal Weather Strips is a good investment.

Very truly yours,

(Signed) CHAS. A. MANGOLD, V. Pres. & Mgr.,
Jefferson Hotel,
Dallas, Texas.





OLIVER J. SANDS' RESIDENCE, *Richmond, Va.*

March 18, 1925

I take pleasure in stating that the weather strips placed by you on my house about ten years ago have given the best of satisfaction, and the same are in practically as good condition today as they were when first installed.

Very truly yours,

(Signed) OLIVER J. SANDS, Pres.
American National Bank, Richmond, Va.

Chamberlin is the name of something more than a design of weather strip. It is the name of an installation and a service which gives certain definite results.

CHAMBERLIN METAL WEATHER STRIPS
SINCE 1883-THE STANDARD

When you specify "Chamberlin" you buy an installation that is *guaranteed for the life of the building.* Because of this unqualified guarantee, we stand back of every job, relieving you of all uncertainty and insuring permanent satisfaction to owners.

As installed by Chamberlin experts, trained to their work, Chamberlin Weather Strips stand the test of years. We have records of Chamberlin Weather Strip still giving perfect service after 10, 20, and 30 years of use.

CHAMBERLIN
METAL WEATHER STRIP CO., INC.
Detroit, Michigan

80 Sales and Service Branches Thruout the United States

Builders and real estate operators erecting homes for sale will find ready acceptance of the name "Chamberlin" on weatherstrips. Homes so equipped are more easily marketed, and are an important factor in maintaining the builder's reputation for sound and honest construction.

We invite realtors, builders and contractors to make use of our nation-wide sales and service organization.

New Catalog Just Out—Send for It

This book of details and specifications has been pronounced the most complete of its kind ever issued. Mail coupon for copy.

Chamberlin Metal Weather Strip Co.
Detroit, Michigan
Please send free copy of your new Detail Book. Also copy of illustrated booklet to show my clients.

Name _____

Address _____

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Quality to the last ounce—

The unusual natural quality of our limestone combined with an experience of over 25 years in producing hydrated lime has resulted in a finishing and all around building lime which has no superior for purity, uniformity, whiteness and easy spreading properties. Our brands may be specified and used with positive assurance of satisfaction to the architect, contractor, journeyman and the builder. Every sack of White Enamel, Gold Medal or White Lily is quality to the last ounce. There is a building supply dealer in your vicinity who handles one of our brands

THE WOODVILLE LIME PRODUCTS CO.
TOLEDO, OHIO

White Enamel Gold Medal *and* White Lily Finishing Hydrated Lime

"The Quality is in the Limestone"

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The Warning

SCIENCE ADVISES EAST OF DANGER OF EARTHQUAKES

Maps Program to Cut Life and Property Loss.

New York, May 16.—[A. P.]—Earthquakes must be added to the risks of life in cities of eastern United States, is the conclusion of the Engineering Economics Foundation of Boston.



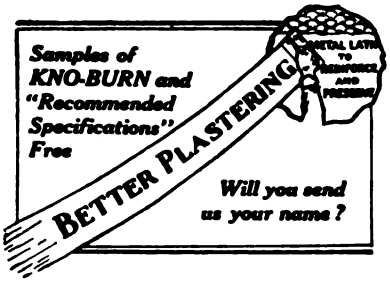
The Experience of 1906. San Francisco now builds with Metal Lath

Has the East learned the West's lesson?

EIGHT distinct shocks in the New York-Boston region,—one as intense as San Francisco's quake, have been felt since September 30, 1924. *More coming,* says the Engineering Economic Foundation of Boston.

Since 1906, architects, builders and engineers have studied earthquakes, their effects on various types of construction and materials, and remedies. In view of their discoveries, the East should certainly be able to avoid a repetition of the Frisco disaster.

Metal Lath is a prime consideration. In past tremors, it has splendidly held its plaster covering under most abnormal strains. The steel web or mesh underlying the mortar grips and tenaciously holds it, transforming each ceiling or wall into a homogeneous slab of steel and plaster. Such construction withstands not only emergency demands, but prevents cracks due to wind stress, vibration, temperature changes and other everyday causes.



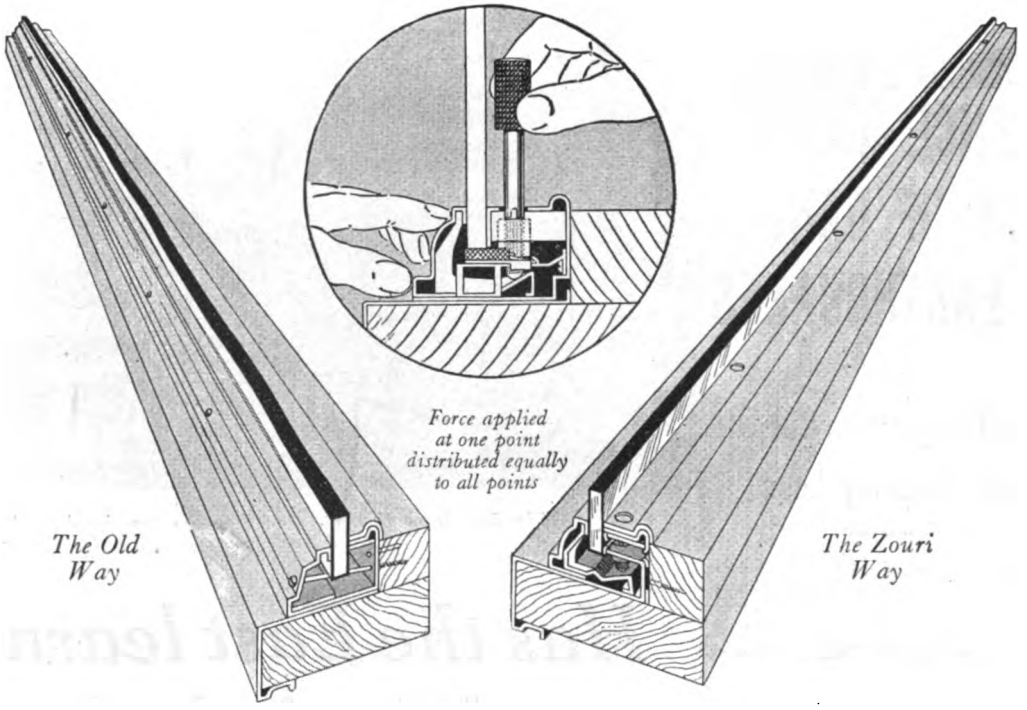
The small, diamond-meshed KNO-BURN Metal Lath fulfills every requirement of an ideal plastering base—economical in the use of plaster—perfect bonding—easily erected and plastered. In connection with Gypsum plaster it also supplies the much desired *one hour fire protection.*

NORTHWESTERN EXPANDED METAL CO.

1204 Old Colony Bldg., CHICAGO



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Zouri Indirect Key-

Straight Line Glass Setting

AT the time plate glass is set the problem of its future safety is settled. It is then that the Zouri key-set construction is most helpful. The Zouri key prevents over-pressure at any one point by distributing the force along the full length of the copper gutter that grips the glass. Pane and moulding are thus brought into precise and parallel alignment. Fractures, which might grow and finally shatter the glass, are prevented at their origin.

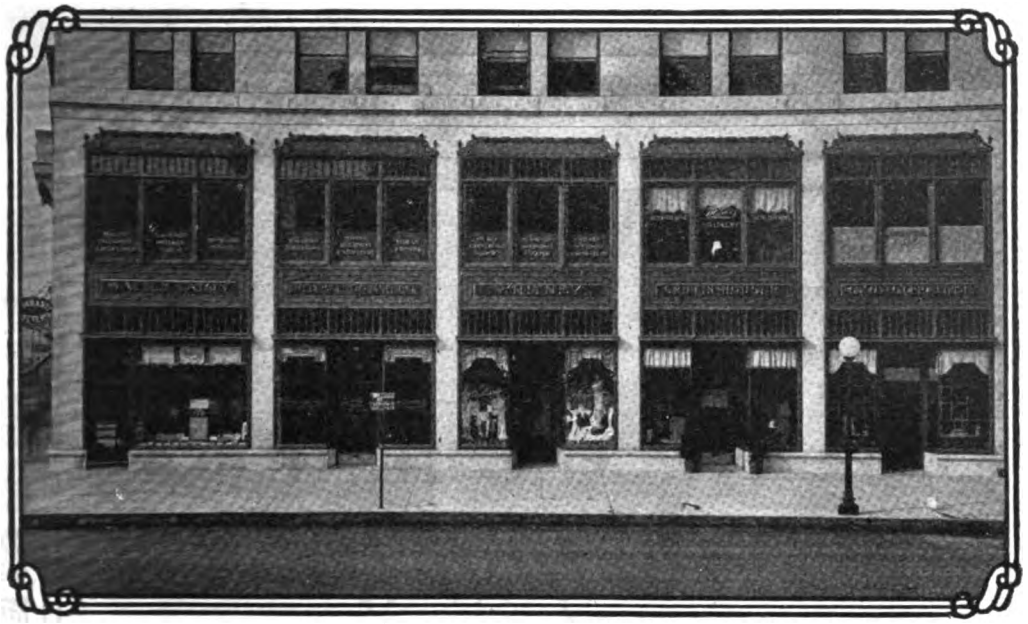


Useful detail sheets and data book

This handbook has been written for architects, contractors and builders. It deals primarily with construction and gives plans and diagrams showing best approved methods of window and display space arrangement. The detail drawings will be welcomed by specification writers. A word from you will bring them—promptly.

ZOURI KEY-SET STORE FRONT CONSTRUCTION

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Hoosier Steel & Wire Guaranty Building
Indianapolis, Indiana

-Set Store Fronts

Such safe and accurate adjustment makes possible in Zouri Store Fronts the use of a high grade of rigid copper. A substantial and handsome installation results, which brings satisfaction and profit to the contractor and builder.

Zouri's patented features, its approval by the Underwriters, and its reputation for prompt delivery have gained the support of the trade. In twelve years it has built up the largest body of distributors in the field.

Zouri Drawn Metals Company

Factory and General Offices

1608 East End Avenue, Chicago Heights, Illinois

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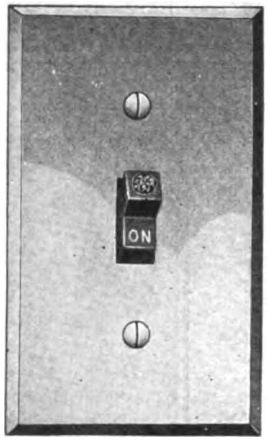
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No. 8601 SQUARE

H & H



Square Handle Tumbler *gives you a*

Style Feature and "Works" Feature

STYLE in the popular Square Handle; Style in the particular design of the H&H Square Handle.

It's shaped so the plate will always fit trimly, even when the switch is not mounted "just so." Workmanlike neatness, without slowing up the work.

Indicating handle; white lettering for ON and OFF. And not the least thing of value in the lettering is the H&H mark—for what *that* indicates in the wiring job.

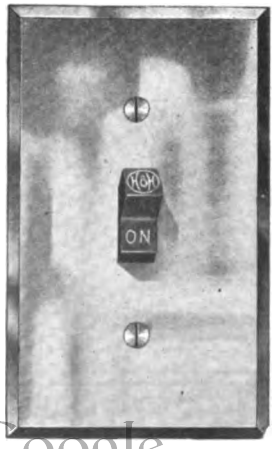
BACK of the H&H Square Handle—the *balanced movement* of "8601 Tumbler," smoothest and quietest of lever-actions.

Most durable mechanically, most positive electrically of any "works" in a shallow tumbler. Puts the owner in touch with Quality he can *feel*.

Costs you no more than switches with no feature *but* handle. Competitive price, with something extra to take your equipment out of the price *class*.



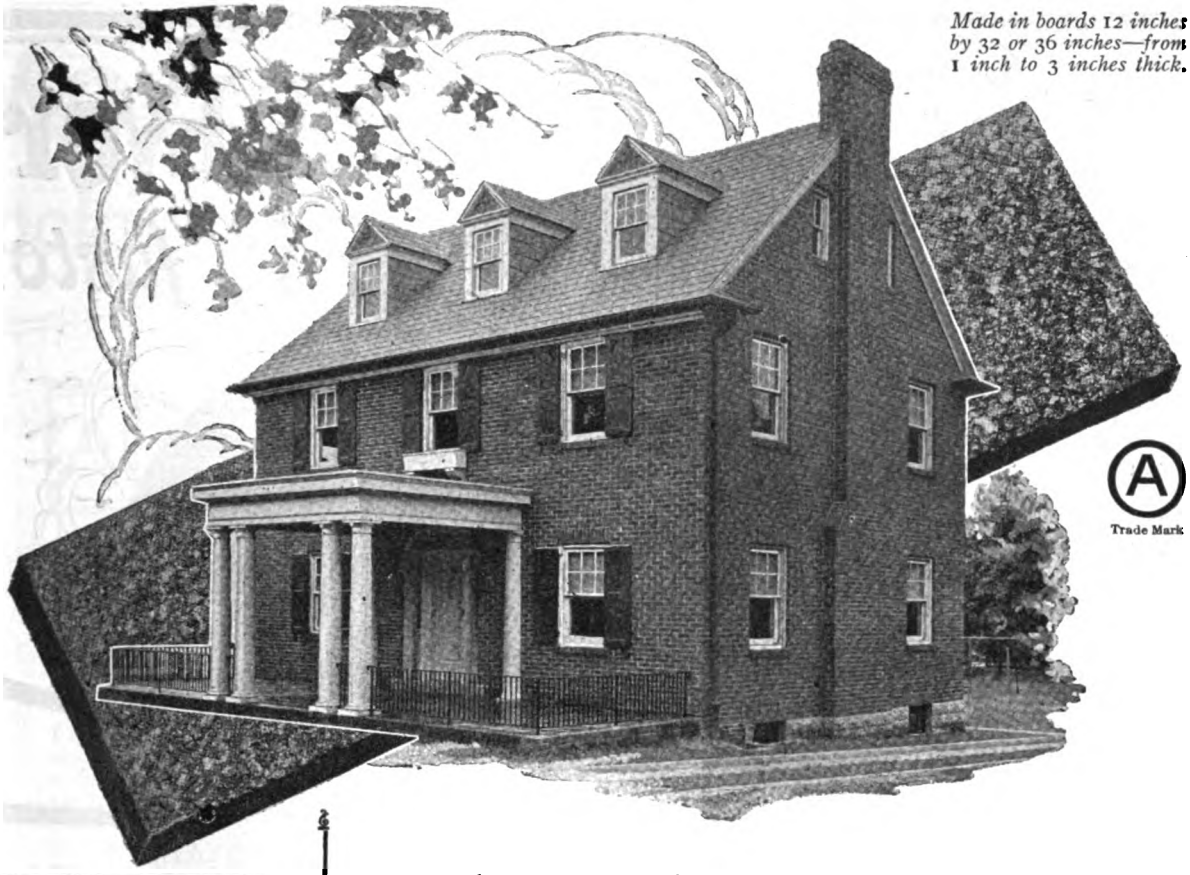
The two big features—"Looks" and "Works"—you cover when you order 8601 SQUARE. Further to specify different styles (lock type, luminous or with combination plates) write for folder with full-line catalogue data.



THE HART & HEGEMAN MFG. CO.
HARTFORD, CONN.

"THE SWITCH WITH THE BALANCED MOVEMENT"

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Made in boards 12 inches by 32 or 36 inches—from 1 inch to 3 inches thick.

Trade Mark



In frame construction, Armstrong's Corkboard is nailed in place like lumber.



Armstrong's Corkboard is set in Portland cement against brick or hollow tile.



No lath is required since plaster keys firmly into the surface of Armstrong's Corkboard.

Cork Lined Houses Make Comfortable Homes

HOUSES insulated with Armstrong's Corkboard are a source of lasting satisfaction and comfort to their owners, and as such they add to the prestige of their builders. Yet, they are just as easy to build as ordinary houses.

Armstrong's Corkboard is easily erected in any kind of construction — brick, stone, concrete, tile, stucco, or frame. It is structurally strong and stable, without expansion or contraction, and neither swells nor shrinks. Armstrong's Corkboard will not absorb moisture (needs no furring strips), and does not mold nor rot. It is slow-burning and a positive fire retardant. It takes and holds plaster permanently.

In summer, the house insulated with Armstrong's Corkboard is many degrees cooler than the uninsulated house. In winter, the cork insulated house is more comfortably and evenly heated with considerably less fuel, and *with a smaller heating plant than would otherwise be needed.*

Further information, including structural details, etc., will be sent free on request to contractors and builders interested in building more comfortable, healthful and economical homes.

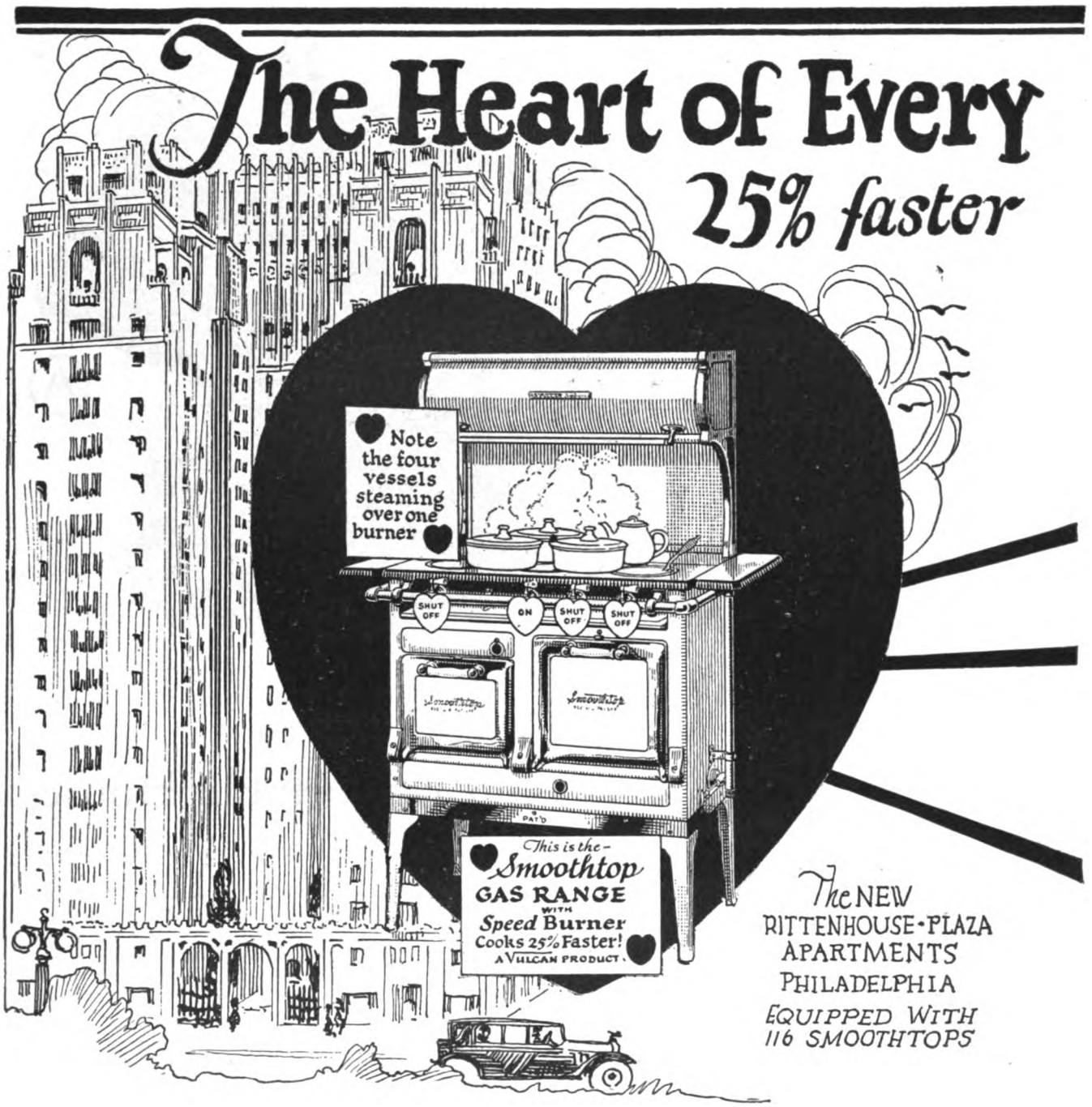
Armstrong Cork & Insulation Company (*Division of Armstrong Cork Company*), 197 Twenty-Fourth Street, Pittsburgh, Pa. Canadian Office, McGill Building, Montreal, Quebec.

Branches in the Principal Cities

Armstrong's Nonpareil Corkboard Insulation

for Residential, Commercial and Industrial Buildings

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In this issue of Building Age the attractive Marven Group of residences located at Margate section of New Jersey near Atlantic City are described and illustrated. Smoothtop and Oriole Gas Ranges have been used extensively in the kitchens of this high class residence development. *You will find Standard Gas Equipment Ranges are standard wherever gas is used.*

Standard Gas Equipment Corporation

Manufacturers of Smoothtop, Vulcan, Oriole and Triplex Gas Ranges

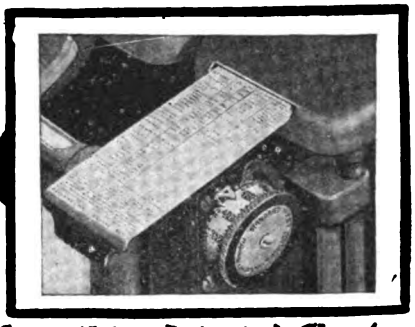
18-22 East 41st Street, New York City

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Modern Apartment

cooking with Smoothtop

REG. U. S. PAT. OFF.



The Smoothtop Patented Chart gives the temperature and time required for oven cooking

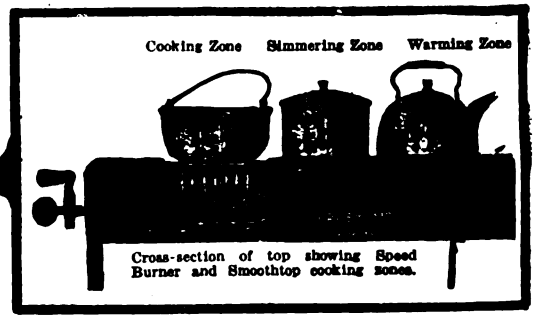
ARCHITECTS and builders appreciate the increased renting value of the home or apartment where the kitchen is equipped with the improved SMOOTHTOP Gas Range.

SMOOTHTOP Gas Ranges help to overcome renting and selling resistance. The attractive cooking features are convincing arguments that appeal strongly to the housewife who is really the important factor in buying or renting the home.

With SMOOTHTOP Gas Ranges you can easily demonstrate how each food can be cooked on top or in the oven at JUST THE RIGHT TEMPERATURE. The new speed burner generates 25% faster cooking heat than the ordinary burner. Every square inch of the smooth, roomy level top is cooking surface and can be utilized economically and efficiently. One burner can keep four vessels steaming—or the whole dinner hot. The important installation feature to consider is that it has 50% more cooking space—and requires less floor space.

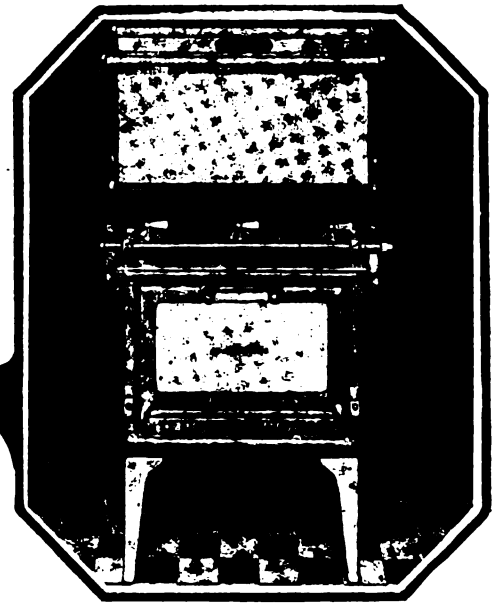
SMOOTHTOP Ranges are being installed in many of the finest homes and apartments. The model apartment houses built by the Metropolitan Life Insurance Co. at Long Island City, New York, are all equipped with 2075 SMOOTHTOPS, while the famous Queensboro Corporation projects in the Jackson Heights development call for over 1000 SMOOTHTOPS. If you want to increase the renting or sales value of your property—investigate the merits of SMOOTHTOP Gas Ranges.

Write for our booklet—"How Kitchen Space was Saved In Planning." Specially prepared for architects and builders. This valuable book contains plans and specifications of various kitchen designs by noted architects of prominent building enterprises.



Cross-section of top showing Speed Burner and Smoothtop cooking zones.

Every Square inch of the Smoothtop level roomy top is cooking surface



SMOOTHTOP No. C-444 -SE
Ideal range for the small Kitchen or Kitchenette

STANDARD GAS EQUIPMENT CORPORATION

Vulcan Division

Successors to WM. M. CRANE COMPANY

18-20 East 41st Street **New York**

Pacific Coast Distributor:
Northwest Gas & Electric Equipment Company, Portland, Ore.
Branch Offices: Los Angeles and San Francisco

NOTE—There is but ONE "SMOOTHTOP" Patented—and that is a Vulcan Product, U. S. Patents June 8, 1920; Jan. 17, 1922; April 4, 1922: other patents pending. Look for the name and trade mark.

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ROYAL

—HART AND CROUSE—



GUARANTEED—at no higher cost!

YOU owe it to yourself and to the folks who buy your houses, to investigate the ROYAL FURNACE.

ROYAL FURNACES are installed by CERTIFIED DEALERS. They are doubly guaranteed. Manufacturer and installer unite to furnish a written pledge that every ROYAL job will render satisfactory service.

Send for complete literature and the name of your CERTIFIED DEALER.



Dealers Everywhere!

HART & CROUSE COMPANY

UTICA, N. Y.

BRANCH OFFICES

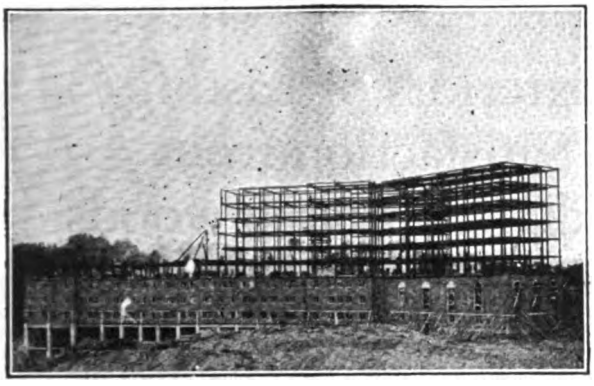
Boston	*Detroit	*Philadelphia
*Chicago	Grand Rapids	Pittsburgh
Cincinnati	Milwaukee	*St. Louis
Cleveland	*New York	*Utica

*Warehouse in connection

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Protect your investment against RUST





MIRAMAR HOTEL, CLEVELAND, OHIO.
J. Harold MacDowell, Architect.
Fleischer Construction Co., Contractor.
No. 1087 "R. I. W." Steel Preservative Paint used.

These priming and finishing coats make steel protection permanent.

"R. I. W." Tockolith, the patented Portland cement paint, gray in color, is used only as a priming coat on iron, steel or other metal.

A finishing coat must always be applied according to the character of the finished surface required and the nature of the service expected.

An unexcelled combination for preventing chemical and electrolytic corrosion is "R. I. W." Tockolith for the priming coat and "R. I. W." Damp Resisting Paint of suitable grade and color for the finishing coat.

"R. I. W." Tockolith has the practical endorsement of the leading engineers, architects, and builders of the country. Its demonstrated efficiency has caused its adoption on the steel work of many notable structures.

No. 49 "R. I. W." Damp Resisting Paint. Black or dark olive-green. Gives a firm, elastic coating which resists corrosion by locomotive fumes and atmospheric conditions. Dries with a good gloss. Specially recommended as a finishing coat over a priming coat of "R. I. W." Tockolith."

"R. I. W." Steel Preservative Paints fulfill every requirement. Write Dept. N for full information and color card.

BUILDINGS unprotected against rust are doomed to a comparatively short life. It is a wise policy, then, to prevent the attacks of corrosion—the destructive agent to which the owners of buildings in this country pay three hundred millions of dollars annually.

Decide now to protect new construction, and check the encroachment of rust on old buildings by the use of "R. I. W." Steel Preservative Paints. They are scientifically made to control the causes of corrosion—their use is insurance against premature decay.

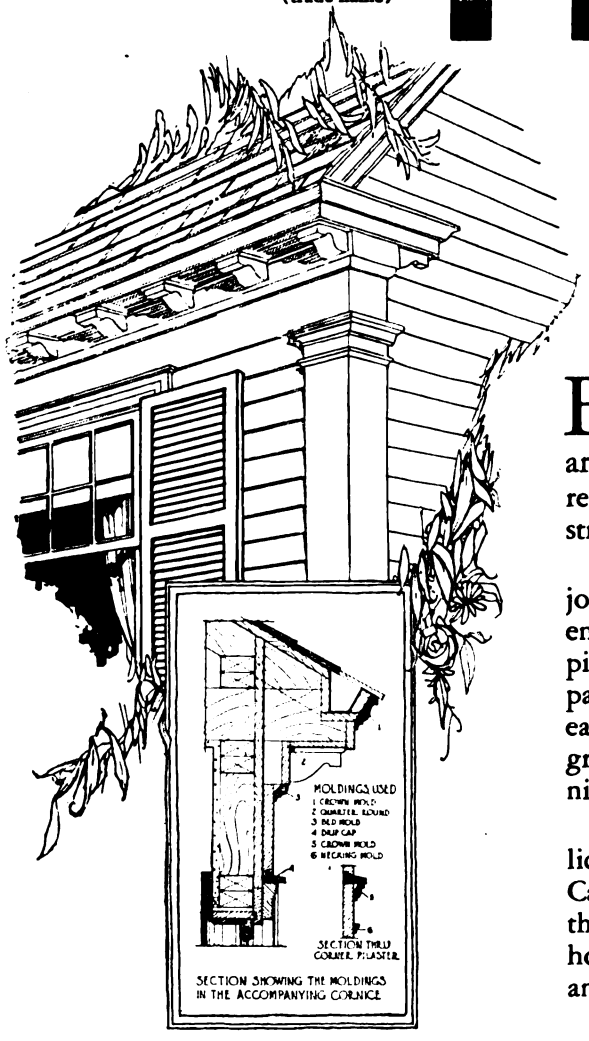
Tock Brothers
INCORPORATED
Technical and Scientific Paint and Varnish Makers
Since 1848
110 EAST 42nd STREET, NEW YORK, N. Y.
Opposite Grand Central Terminal
Works: Long Island City, N. Y.

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California PINE

California White Pine (trade name)

California Sugar Pine



All the various moldings required in decorative cornices and the fine joining of air-tight, water-proof exterior construction are easily and precisely milled from these fine, soft pines. They work easily, either at the planing mill or in the hands of the carpenter.

You are invited to freely correspond with our Wood Technologist, who was formerly with the U. S. Government Forest Products Laboratory at Madison, Wisconsin. He will give you exactly the information you require, whatever your building problem.

Exteriors of Lasting Satisfaction from readily-workable woods

FOR sidings, cornices, porches, frames and other outside construction, California Pines are exceptionally well adapted. They conform readily to artistry in designing and meet every construction requirement.

Ability to hold shapes without opening up at the joints or warping out of place; freedom from tendency to split when nails are driven near the end of the piece; affinity for paint, requiring less frequent repainting; pale color, requiring fewer coats of paint; easy workability, due to soft texture and uniform grain—these outstanding characteristics give California Pines their remarkable serviceability.

Advertising in nationally-read homebuilders' publications is arousing widespread public interest in California Pines. In this way, a ready acceptance for these woods on the part of the home-builder and home-buyer is being created—a fact which architects and builders appreciate.

If you have not received your set of California Pine Information Sheets, be sure and write us. They contain technical information for specification purposes and are in convenient standard size, in a folder—ready for your files.

California White and Sugar Pine Manufacturers Association

657 Call Building · San Francisco

Also producers of

CALIFORNIA WHITE FIR, CALIFORNIA DOUGLAS FIR, CALIFORNIA INCENSE CEDAR

A425

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Wheeling

Wheeling Metal Lath

Square Corners and Straight Edges are a feature of all Wheeling Metal Lath that is appreciated alike by Architect, Contractor and the builder who "foots" the bills. A saving in lapping means economy in lath *and* better workmanship.

Wheeling Metal Lath is supplied in styles to meet every requirement and every preference—Standard Diamond Mesh Lath, Wheeling Rid-Gid Lath, Wheeling ⅜ Inch Rib Lath and Wheeling Flat Rib Lath—Samples on request.

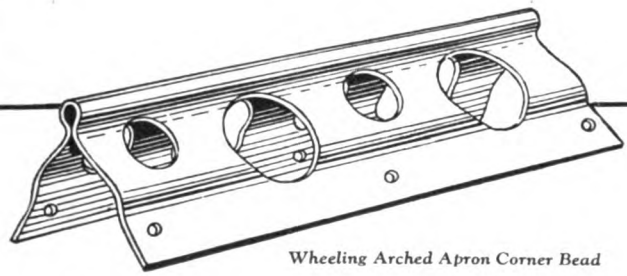
Building Materials That Save Labor

Let Wheeling meet your building needs for materials that embrace advancements and perfections in *design and manufacture.* From roof to cellar you can standardize on Wheeling products that reduce labor costs, save material and assure durability. Put your requirements up to Wheeling—or write the nearest branch.

WHEELING CORRUGATING COMPANY

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New York · Chicago · Philadelphia · Minneapolis
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Wheeling Arched Apron Corner Bead



Wheeling Zig-Zag Wall Tie

WHEELING BUILDING MATERIALS:

Metal Lath	Roofings	Eaves Trough
Cut Nails	Wall Ties	Corner Bead
Shingles	Wire Nails	Mason Hods
Ceilings		Conductor Pipe

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SARGENT
Tools & Hardware



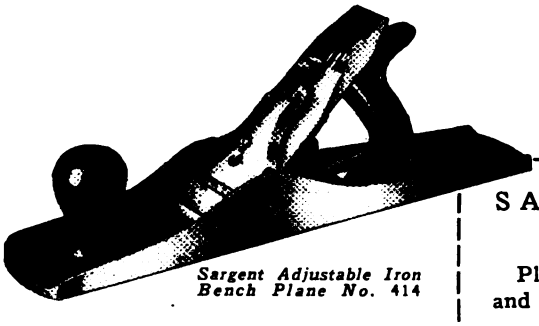
You wouldn't try to use a razor blade as the cutter of your plane

NOR a hefty axe! But you do want the cutter to combine as much as possible of the keenness of the one and the strength of the other. And that's exactly the combination we've gotten with chromium steel.

If you have ever used a Sargent Plane, you know that chromium steel is just the best metal ever put into the cutter of any plane. Every Sargent Plane will demonstrate that fact. From the smallest to the largest, they've all got cutters of this remarkable steel.

Try the Auto-Set Bench Plane No. 714, which is shown above, or the Sargent 414 (illustrated below) if that's your favorite type. The cutter goes through the toughest wood with a minimum of pressure. It cuts "clean." It holds its edge over a longer period of service, and yet is comparatively easy to sharpen. It stands hard knocks. It is strong!

Your dealer, or one nearby, handles Sargent tools. He'll be glad to show them to you and let you try them yourself. We want to send you free booklets which illustrate and describe the many special points about Sargent Planes and Squares. Simply fill in the coupon and mail it today.



Sargent Adjustable Iron Bench Plane No. 414

SARGENT & COMPANY, *Manufacturers*
52 Water Street, New Haven, Conn.

Please send me, without cost, the booklets on Sargent Planes and Squares.

Name.....

Address.....

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Morgan Plan Suggestion No. 15-A

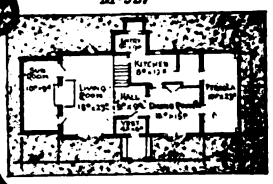


Morgan Entrance M-51½



Morgan Bookcase M-527





Main Floor Plan

Morgan Colonial Stairs M-200

A becoming entrance for every home you build

LET MORGAN-QUALITY WOODWORK
BE YOUR GUIDE TO BETTER ENTRANCES



Morgan French Doors M-831

Morgan entrances, because of beautiful designing and the advantages gained by standardization, bid fair to revolutionize building practice with thousands of contractors and home builders.

The beauty of a Morgan-Quality entrance adds distinction and value to any home. It pleases the owner, increases your prestige as a good builder, multiplies the demand for your services.

The same may be said of Morgan-Quality stairways, bookcases, mantels, china closets, cupboards, cabinets, breakfast nooks, as well as doors and interior trim.

Morgan doors are quality-built with soft white pine cores. They have patented wedge dowel construction, which guarantees a door that, if given ordinary treatment, will retain its original shape, size and structural stability during the life of the building.

Morgan standardization as to sizes, designs and woods benefits the owner, but perhaps even to a greater extent the builder. It permits the Morgan organization to largely increase production, during periods of unusual demand, and promptly supply all your requirements. You avoid many delays with their attending grief and extra expense. Every piece is marked [redacted] for your protection.



Morgan Fireplace M-514

Morgan standardization reduces production costs to the minimum, making possible unusual value. It enables you to work to standard sizes, thus speeding installation, which results in more profit to you and lower cost to your client. There is no added cost for Morgan-Quality.



Home owners are being familiarized with Morgan-Quality Woodwork by means of national advertising which reaches 4,769,029 homes. The authorized Morgan dealer in your locality can give you full details. Or mail the coupon for the Morgan Price Supplement and prospectus describing "Building with Assurance."

"MORGAN-QUALITY"

STANDARDIZED WOODWORK

MORGAN WOODWORK ORGANIZATION

MORGAN COMPANY, Oshkosh, Wis.; New York City.
MORGAN SASH & DOOR COMPANY, Chicago, Ill.; Detroit, Michigan; Cleveland, Ohio.
MORGAN MILLWORK COMPANY, Baltimore, Md.; Jersey City, N. J.; Greensboro, N. C.

MORGAN

Look for this mark on every Morgan Product



"Building with Assurance"

Master Book on Home Building

Whether you are building homes to cost $3,000 or $50,000, you need this big, 440-page Master Book, "Building with Assurance" (Second Edition). It contains specific, practical, USABLE information to help you cut costs and save time.

In this great book are shown homes of all types. There is page after page of attractive bungalows and houses, in full colors, with floor plans. Besides, you get help on room arrangement, interior decoration, floor coverings, lighting, heating, plumbing and landscaping. Over 15,000 architects, contractors, and dealers indorse and use it for daily reference.

Mail coupon for prospectus

Our prospectus tells all about it—shows beautiful homes in color, with floor plans. The prospectus is gladly sent to those who mail the coupon.

Address nearest office, Dept. U-7.

Morgan Sash & Door Company, Chicago, Ill.
Morgan Company, Oshkosh, Wisconsin.
Morgan Millwork Company, Baltimore, Md.

Gentlemen: Please send me at once copy of your beautiful prospectus which describes "Building with Assurance" (Second Edition). Please include the Price Supplement.

Name .....

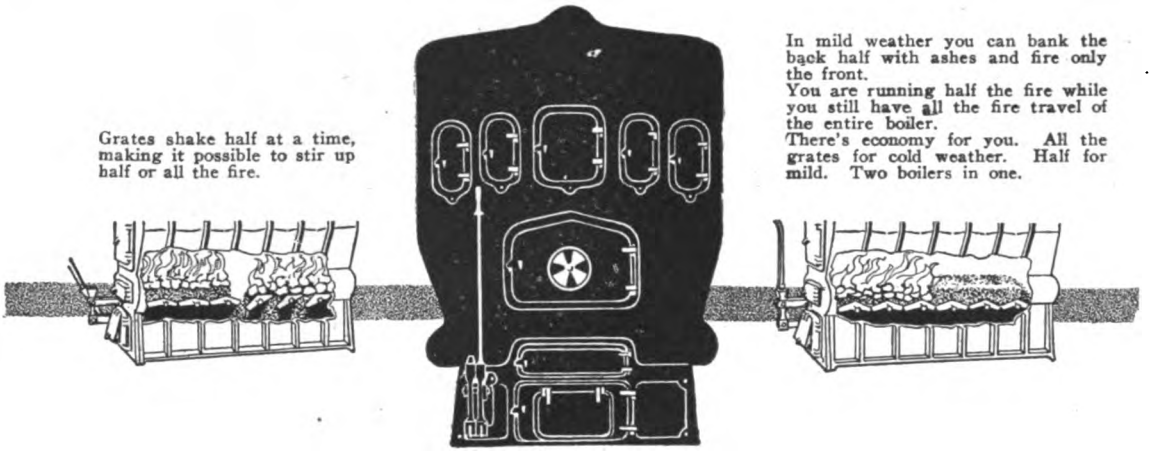
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Town ..... State .....

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Burnham Cosy Comfort Heat



Why One Burnham Is Equal to Two

RUNNING a big boiler when there's only work for a small one, eats up too much coal.

Forcing a small boiler when there's work for a big one, eats up just as much too much.

It hits pocketbooks too hard, either way.

It does if it isn't a Burnham Square.

It doesn't if it is, because the Burnham is made so it's two boilers in one. A small one inside the big one.

The grates do it.

Read what it says over the illustration cuts and see for yourself.

Send for "Letters To and Fro," and get the real meat of this boiler question.

Burnham Boiler Corporation

Irvington, N. Y.

Representatives in all Principal Cities

Canadian Offices:
Harbor Commission Bldg., Toronto
124 Stanley Street, Montreal

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"Applied in HALF the Time"

Says this builder of

CYCLONE SHINGLES

"Builder of Better Built Bungalows"

NELSON O. OUTCALT

CONTRACTOR AND BUILDER—JOBBING A SPECIALTY

4015 DOBERER AVENUE

PHONE PARK 1080 Y

Winton Place, Ohio

March 9th, 1925.

The Baldwin Tarvin Co.,
615 Carr Street,
Cincinnati, Ohio

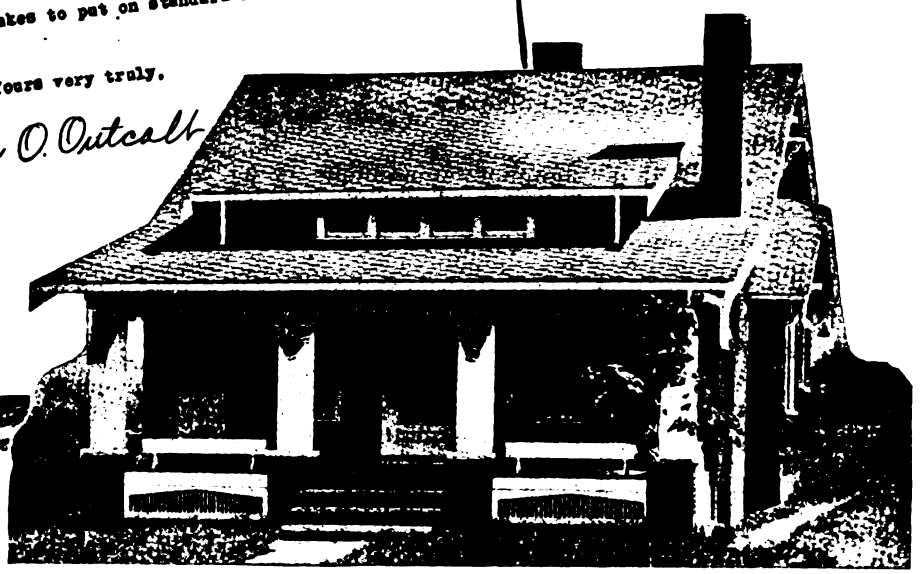
Gentlemen:-

After having put on several Cyclone Shingle roofs, I can advise you that they have been very satisfactory. In my opinion the appearance of the Cyclone Shingle on the roof is very good and there is no question but that this shingle makes a tight waterproof roof which should last for many years.

Regarding the cost of application I find that I can apply Cyclone Shingles in less than one-half the time which it takes to put on standard individual shingles.

Yours very truly,

Nelson O. Outcalt



Cyclones cost no more than strips

Cyclones are the fastest laid shingles in the world. They require only half the time of individual shingles—two-thirds the time of 4 in 1 strips. Consider the savings!

Each *Cyclone* Shingle is doubly locked, making them practically wind-proof. Also, their exceptionally long head lap (6 7/10 inches) assures a really water-tight roof.

Only 72 Shingles and 216 Nails to the Square!

It takes 424 individual shingles and 848 nails to roof a square. When 4 in 1 strips are used, 112 shingles and 560 nails are required. Take your pencil and figure out the saving you can make with *Cyclones*. It will cause you to sign and mail the coupon for prices and further interesting facts.

FORD ROOFING PRODUCTS CO.
535-539 S. Franklin Street : Chicago, Ill.

FORD ROOFING PRODUCTS CO., Dept. 307
535-539 South Franklin Street, Chicago, Illinois
Please send me details of the *Cyclone* Shingle and full particulars, FREE and absolutely without obligation.

Name _____

Address _____

Business _____

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A Handy Paint Remover

A COMBINATION BLOW TORCH, BRANDING and SOLDERING IRON IN ONE



for the Contractor and Builder

This combination blow torch is one of the handiest work tools ever put on the market and particularly useful to contractors, builders and painters on remodeling and repainting jobs where clean and smooth surfaces are absolutely essential. The flamespreader attachment easily removes the paint.

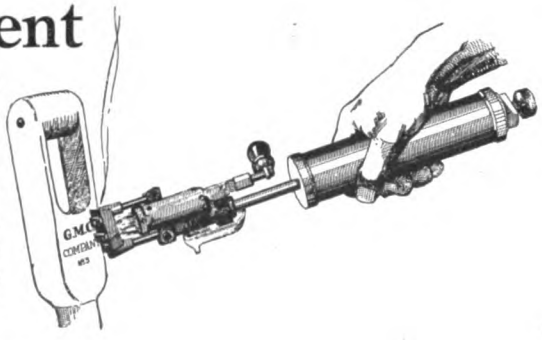
Likewise it can be used for branding and soldering and with the soldering points attachment it is a blow torch and solder. The service this tool renders pays for itself in no time.

Brand Your Equipment



Set your own Brand-Type and Number

The handy paint remover can be utilized for branding your name or trademark on each piece of equipment. This prevents valuable property from being stolen and avoids unnecessary loss by mistaken ownership. Our complete booklet describes its many practical uses in detail.



DEALERS

Don't fail to write for our profitable proposition and literature on this fast selling combination blow torch.

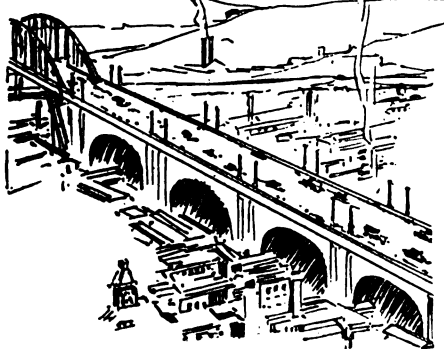
COMBINATION BLOW TORCH MFG. CO.

2806 W. VAN BUREN STREET CHICAGO, ILL.

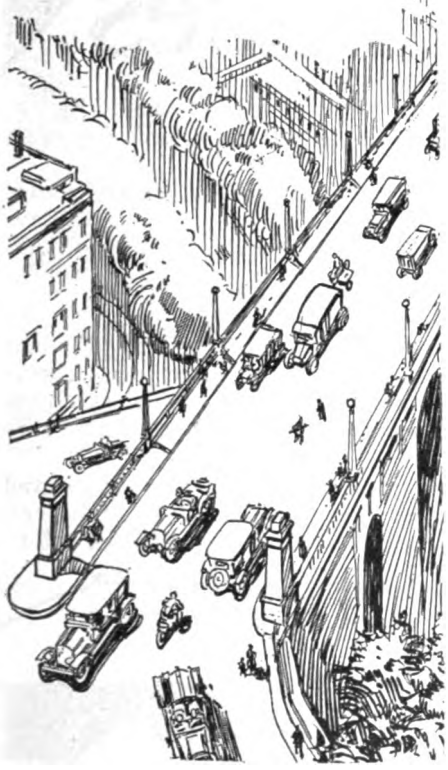
Ten days' free trial to reputable contractors and builders

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As everlasting as the hills it connects



The Hill to Hill Bridge at Bethlehem, Pa., is constructed of Pennsylvania Portland Cement to insure permanence.



THE magnificent Hill to Hill Bridge across the Lehigh River at Bethlehem, Pennsylvania, is more than a bridge. It is an enduring concrete monument to the farsightedness of its promoters and to the skill of the architects and engineers who constructed it.

The use of Pennsylvania Portland Cement is a guarantee of reliability. Not only does it exceed U. S. Government standards but in the entire process of manufacture, from the selection of the finest cement rock to the final product, every step must insure quality. You may be sure that no better cement can be made by any process or by any method.

The Pre-test

Thirty days or more before any Pennsylvania Portland Cement is ground for shipment, we thoroughly test the fused clinker from which cement is made. A miniature grinding mill installed in our laboratories duplicates actual process of manufacture. This makes it possible to know that the quality of Pennsylvania Portland Cement is certain *every time*. Every barrel exceeds the rigid U. S. Government standard requirements.

This reputation for quality has been the determining factor for the selection of Pennsylvania Portland Cement by architects and engineers in such important work as the New York and Brooklyn subways, the Hill to Hill bridge at Bethlehem, Pa., the Polo Grounds, the Bear Mountain Bridge, The American News Co. Building and the approaches to the Vehicular Tunnels.

Mail the coupon for your free set of the handy library "More Profits in Cement." It contains valuable information for all cement users.

PENNSYLVANIA CEMENT COMPANY

Offices:

New York — Philadelphia
Boston — Buffalo

Plants: Bath, Pennsylvania; Portland Point, New York

PENNSYLVANIA
PORTLAND CEMENT

Pennsylvania Cement Company, Dept. A-4,
131 East 46th Street, New York City.
Please send me the handy library "More Profits in Cement"—FREE.

Name .....
Street .....
City ..... State .....

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This Roof helps the Builder to sell more Houses

Dear Mr. Builder:

A good sized group of editors, with their articles on "Better Homes," have for years been paving the way for you.

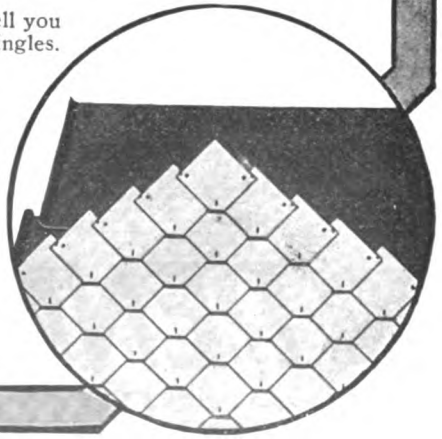
Home-buyers are now keen to observe and value the permanent and substantial roof—one that will not curl, that cannot rot or burn and won't ever require paint. You have something that stands out in contrast with cheaply built houses when you put on

Ambler Asbestos Shingles

Don't confound them with cheap, flexible shingles that curl or flake off. Ambler Asbestos Shingles are strong, solid slabs that get stronger as they age. Composed entirely of asbestos and hydraulic cement—materials that have already gone through fires hotter than any dwelling ever has to stand. Manufactured under enormous hydraulic pressure by a process that eliminates porous spots.

Natural (Newport) Gray, Indian Red, Moss Green, Spanish Brown, Blue-black and other colors. American, French and Honeycomb styles in various thicknesses and sizes. Extra-thick stock with broken-butt edges, using shingles of two or three different colors, produce color-blend roofs of unusual beauty.

We have some samples here ready for you. Let us send them and tell you of building operations made distinctive by the use of Ambler Asbestos Shingles.



Asbestos
Shingle, Slate & Sheathing
Company

Department C **Ambler, Penna.**

Branch Offices:—Baltimore, Boston, Buffalo, Chicago, Cincinnati, Columbus, Detroit, Cleveland, Minneapolis, New York, Omaha, Philadelphia, Pittsburgh, Washington, Wilkes-Barre; Toronto, Can.; Havana, Cuba.

Southwestern Distributor:—R. V. Aycock Co., Kansas City, St. Louis, Tulsa, Houston.

California Representative:—J. A. Drummond, Los Angeles, San Francisco, Fresno.

H. G. Sperry & Company, Utah, Idaho, Nevada and Washington Representative: Offices—Salt Lake City and Seattle.

F. T. Crowe & Company, Washington Representative: Offices—Seattle and Tacoma.

Dixie Asbestos Co., Birmingham, Ala.

Other distributors throughout the country.

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FAIRBANKS-MORSE HOME WATER PLANTS







Water Service
beyond the city mains



No longer is the home owner who is beyond city water mains content to be without the great modern convenience of water under pressure. Nor must he forego the greater health, happiness and sanitation that are brought about by running water. At a cost of merely a few cents a day he can have water under pressure in bathroom, kitchen, laundry, garage, barn, watering trough—*any place.*

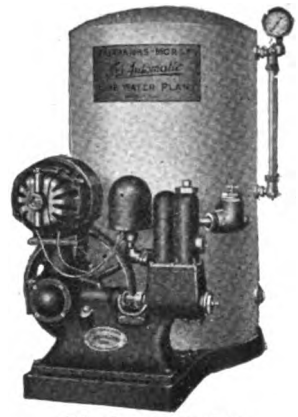


No matter where the home is located there is a Fairbanks-Morse Home Water Plant to suit the requirements. There are electric and engine driven plants for drawing water from any source—lake, spring, stream, shallow well, deep well, cistern. The electric plants are automatic in operation—self-starting, self-priming, self-oiling. Built in sizes 120 to 5000 gallons per hour.



Don't overlook this vitally important matter of water under pressure when you build homes beyond the city mains. An extensive national advertising campaign in leading publications is carrying the message of Fairbanks-Morse Home Water Plants to the prospective home owners in your territory. We are thus making it easier for you to include water under pressure in the specifications.

Write for our latest literature, including a valuable 32-page Home Water Service Book which is of particular interest to architects, builders and home owners.



200-gal. per hour plant
"It's Automatic"

PRICES

120 gallons per hour capacity pump, 60 cycle motor, 8-gallon galvanized tank, complete, $84.75, list.

200 gallons per hour capacity pump, 60 cycle motor, 35-gallon galvanized tank, complete, $123.00, list.

Above prices are cash f. o. b. factory. Also larger sizes, for engine or electric drive, correspondingly low priced.

FAIRBANKS, MORSE & CO.

Manufacturers ***Chicago, U. S. A.***

Fairbanks-Morse Products *"Every Line a Leader"*

Branches and Service Stations covering every State in the Union.

Pin This to Your Letterhead

FAIRBANKS, MORSE & CO., Dept. N-7,
900 South Wabash Avenue, Chicago, U. S. A.

(922)

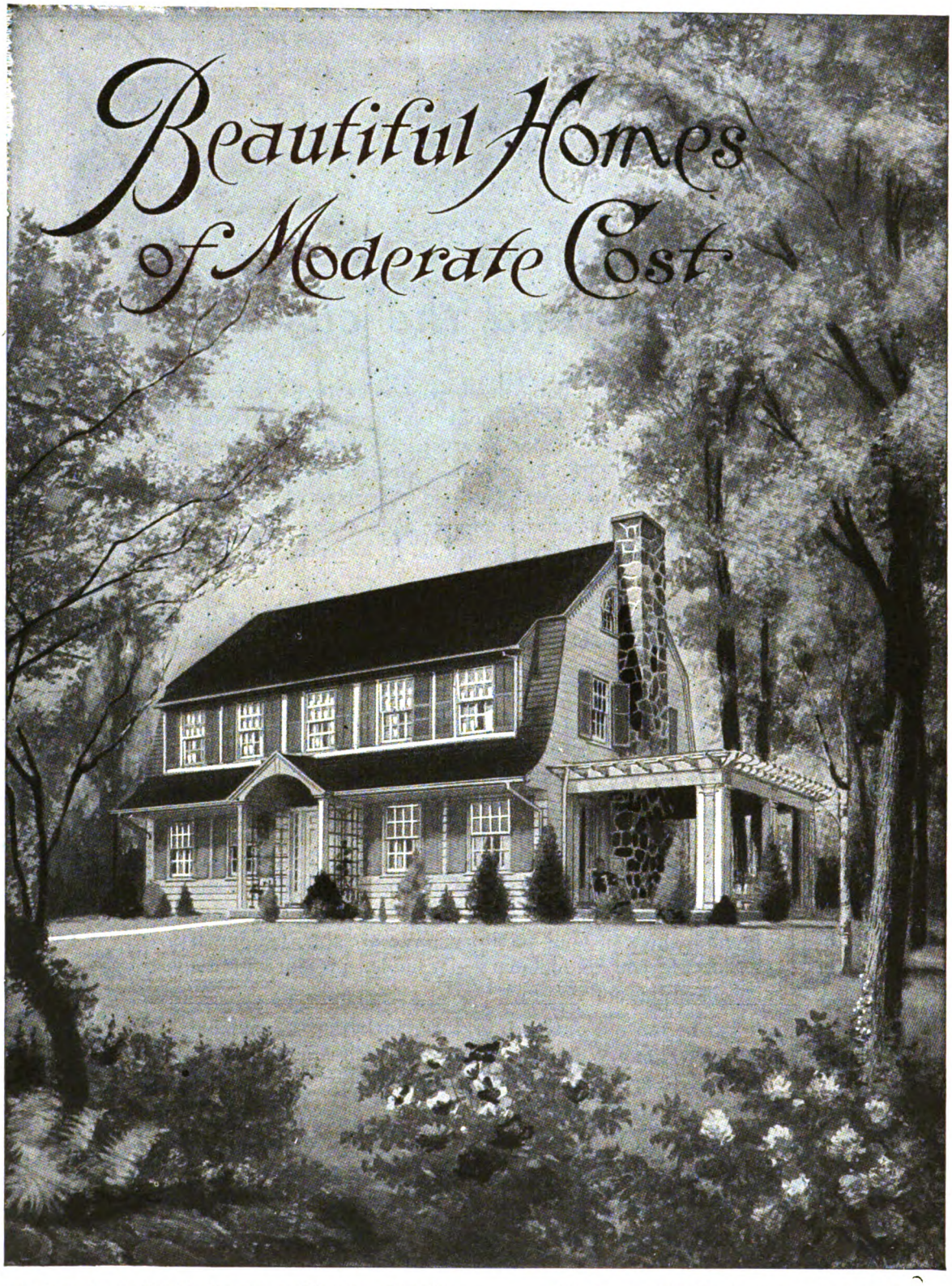
Send latest literature and complete information concerning Fairbanks-Morse Home Water Plants.

Name.....

Address.....

City.....State.....

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44 designs by nationally-known architects. Complete blue print plans and specifications available at nominal cost for each design.

Practical, beautiful, economical types of 1-and 2-family houses and bungalows—frame, brick, stone, hollow tile, etc.

Besides homes, the book shows Garages, Pergolas, Furniture, and contains articles on Finance, Landscaping, Wiring, Heating and Plumbing. A most unusual plan book.

100 Pages—165 Illustrations—9x12 Inches
Heavy Paper Covers—$1.00

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.....1925

Building Age and National Builder,
239 West 39th Street, New York City.

Enclosed find $..... for "Beautiful Homes of Moderate Cost."

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"Beautiful Clothes Closets"—

is the title of this new, informative brochure on modern closets. It illustrates and describes fully how you can use inexpensive Knape & Vogt Clothes Closet Fixtures to increase the value and desirability of homes, hotels, clubs and other buildings.

Modern, convenient clothes closets are often the standard by which a house is judged. This free folder shows you exactly how to provide the utmost in closet beauty and convenience at very slight cost. Just sign and return the coupon below.

Knape & Vogt Mfg. Co.

GRAND RAPIDS, MICH.

Knape & Vogt fixtures are very inexpensive. They are sold in hardware stores everywhere, but if you are unable to find your local dealer, order from us direct.

PRICES

14 inch	$4.00	22 inch	$5.20
16 inch	4.30	24 inch	5.50
18 inch	4.60	26 inch	5.80
20 inch	4.90	28 inch	6.10

KNAPE & VOGT MFG. CO., Grand Rapids, Mich.

Please send me your Free Booklet, "Beautiful Clothes Closets," and your free blue print folder, "Plans for Modern Clothes Closets," showing many different installation plans.

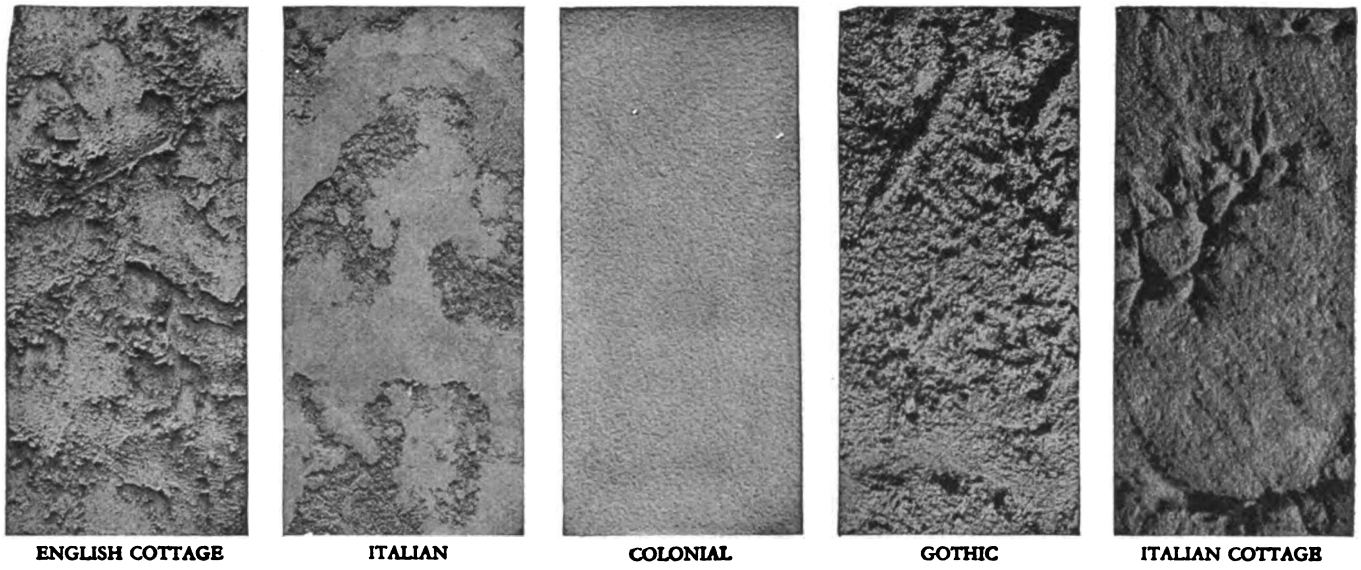
(..) Architect (..) Contractor (..) Builder

Name .....

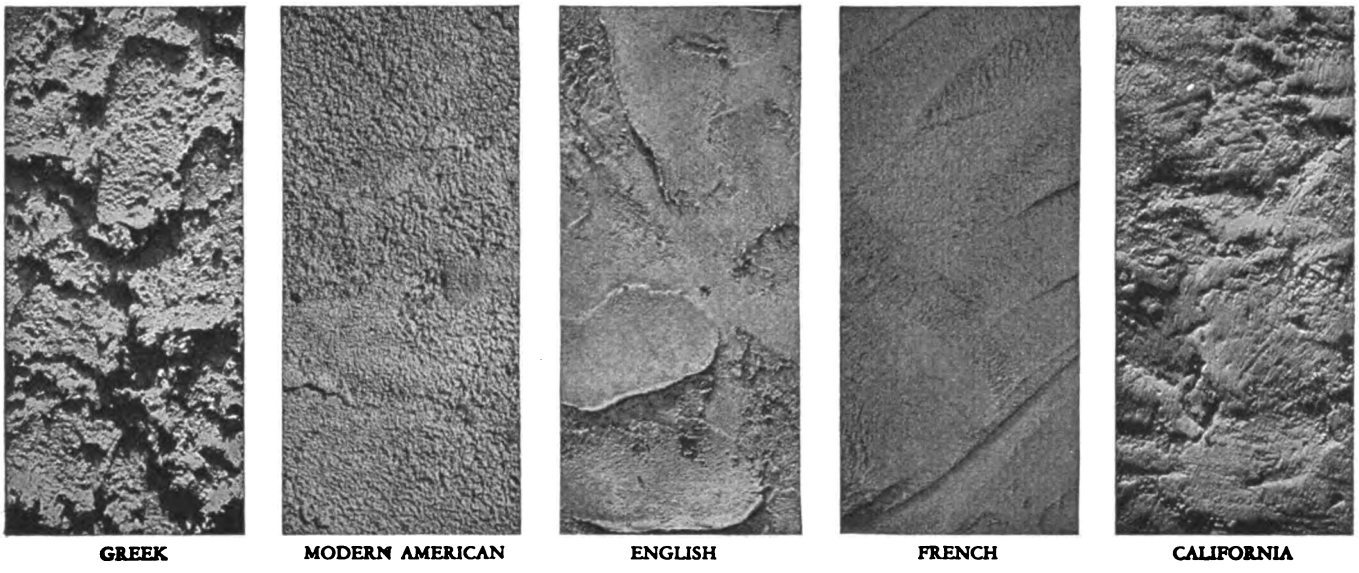
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ENGLISH COTTAGE | ITALIAN | COLONIAL | GOTHIC | ITALIAN COTTAGE



GREEK | MODERN AMERICAN | ENGLISH | FRENCH | CALIFORNIA

The Portland Cement Stucco textures here shown are taken from photographs of actual stucco jobs. Any competent workman in the plastering trade can reproduce these beautiful, permanent and economical finishes.

A Texture for Each Period

Controlled and directed by the creative genius of the architect, Portland Cement Stucco assures a range of beauty obtainable with no other material. It makes certain a texture and tint that complete harmoniously the style of the period in which the structure is designed. Have you received your copies of "Portland Cement Stucco Textures" and "Portland Cement Stucco"? If not, send for them today. Address the nearest office listed below.

PORTLAND CEMENT ASSOCIATION

A National Organization to Improve and Extend the Uses of Concrete

		COLUMBUS	DETROIT	LOS ANGELES	NEW ORLEANS	PHILADELPHIA		
	BOSTON	DALLAS	INDIANAPOLIS	MILWAUKEE	NEW YORK	PITTSBURGH	SAN FRANCISCO	
ATLANTA	CHARLOTTE, N. C.	DENVER	JACKSONVILLE	MINNEAPOLIS	OKLAHOMA CITY	PORTLAND, OREG.	SEATTLE	VANCOUVER, B. C.
BIRMINGHAM	CHICAGO	DES MOINES	KANSAS CITY	NASHVILLE	PARKERSBURG	SALT LAKE CITY	ST. LOUIS	WASHINGTON, D. C.

Our Booklets are sent free in the United States, Canada and Cuba only

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Residence at 611 Cliveden Avenue, Germantown, Philadelphia. Architect and Builder, Mr. Don Peters, Philadelphia. Owner, Mr. F. H. Williams, Philadelphia. Kitchen equipped with Direct Action Lorain-equipped Gas Range.



Plan HAPPY Homes!

CONVENIENCE, health and happiness can be planned right into your houses by specifying the very best time-saving, labor-lightening equipment—especially for the kitchen. So much depends upon properly cooked food and smooth-running kitchen affairs that you should always specify Gas Ranges equipped with the famous Lorain (Red Wheel) Oven Heat Regulator.

The Lorain is a thermostat built into the stove. It measures and controls automatically the heat of the oven. It is the *original* oven heat regulator, invented, manufactured, sold and *guaranteed* by American Stove Co. You can always tell a Lorain-equipped Gas Range by the Red Wheel.

Each year, in over thirteen hundred schools and colleges, thousands of young women are taught to cook by the aid of the Red Wheel, and these young women will soon be buying or renting homes of their own.

In thousands upon thousands of buildings—churches, lodges, schools, apartments and houses, Lorain-equipped Gas Ranges are giving efficient, economical service, reflecting credit upon the architects and builders responsible for the installation.



Type of Direct Action Lorain-equipped Gas Range in the residence pictured above.

These famous gas stoves are equipped with the Lorain Oven Heat Regulator: Clark Jewel, Dangler, Direct Action, New Process, Quick Meal and Reliable. They are made in every approved size, style and finish.

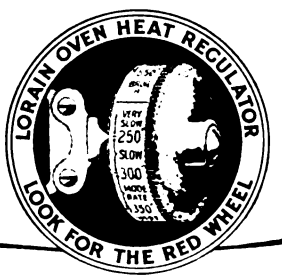
For specific data see 19th edition, Sweet's Catalog, pages 2497-2506 inclusive. Additional information sent on request.

AMERICAN STOVE COMPANY, 222 Chouteau Ave., St. Louis, Mo.

Largest Makers of Gas Ranges in the World

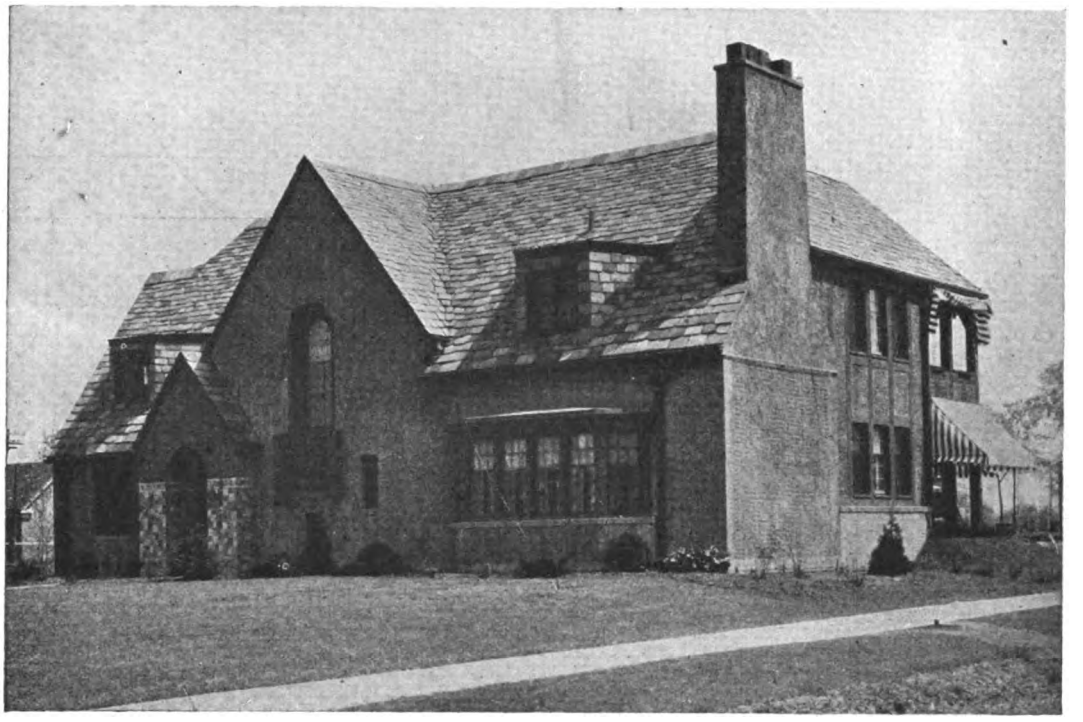
LORAIN OVEN HEAT REGULATOR

One easy turn of the Lorain Red Wheel gives the housewife a choice of any measured and controlled oven heat for any kind of oven cooking or baking.



Unless the Regulator has a Red Wheel it is NOT a LORAIN

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THE wonderful texture of Slate—its dignified appearance—the ease with which it adapts itself to any style of building are important factors which add value to your building at a glance. A good roof indicates that good materials are used throughout the structure.

Why take a chance on imitations and substitutes when the original is obtainable at only a slight additional cost? If you have to cut down, do not sacrifice your roof because here the most wear occurs.

Play safe—investigate first.



· Largest Shippers of Roofing Slate in the World ·

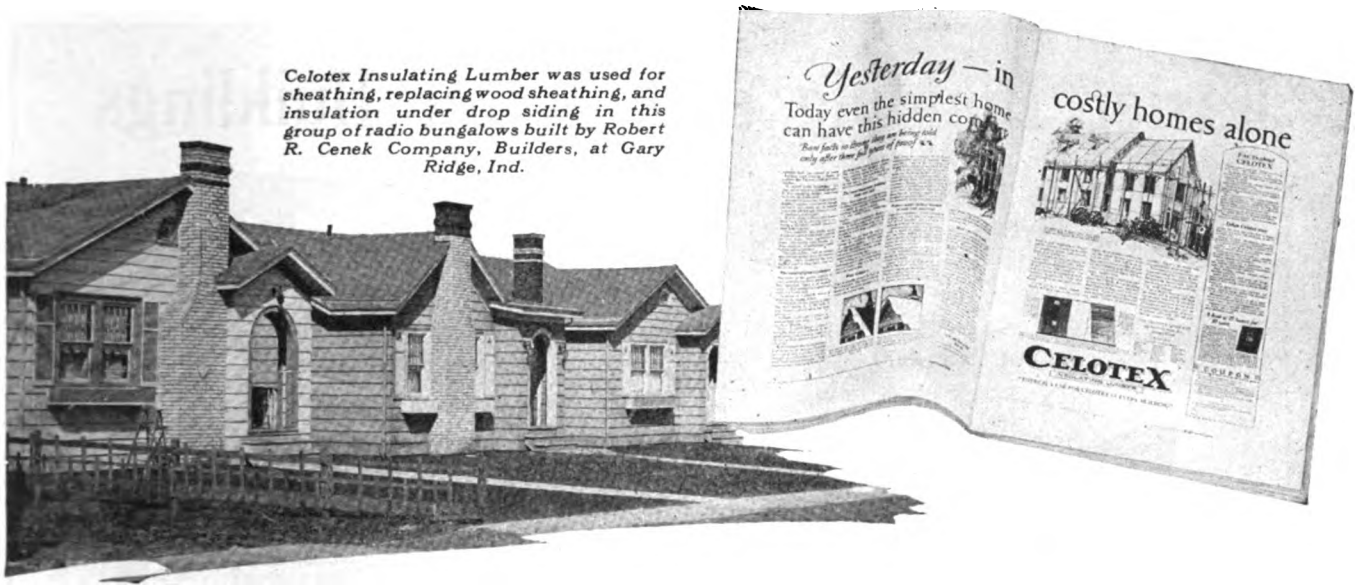
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HAMMANN BUILDING



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Celotex Insulating Lumber was used for sheathing, replacing wood sheathing, and insulation under drop siding in this group of radio bungalows built by Robert R. Cenek Company, Builders, at Gary Ridge, Ind.

Houses that *sell faster* yet cost no more to build

Turn your building investment into dollars—dollars that have a profit figured in. *And do it quickly.*

People *demand* home insulation! Such homes are cooler in summer, warmer in winter, and cost ⅓ less to heat. A year-round peaceful quiet pervades the insulated home.

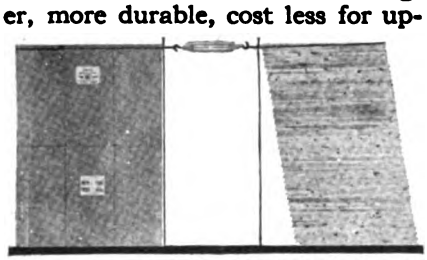
And *now,* you can give them this hidden comfort without increasing the cost of your operation.

Unlike other insulating materials, Celotex Insulating Lumber is not an extra. Because it takes the place of wood *and* any insulating material, Celotex insulation costs no more than ordinary construction.

Celotex as sheathing, plaster base, roof insulation, braces the building more than the wood it replaces. It is the *only* insulating material having this great structural strength.

Celotex houses are good collateral

The mortgage banker knows that houses built with Celotex are stronger, more durable, cost less for upkeep. Naturally, he will be willing to loan more money on such houses, for they are better collateral.



At pressure equivalent to tornado-wind pressure, frame sheathed with Celotex only slightly out of plumb

At 3-5 of this pressure, frame sheathed with wood was racked more than 11 times as much as Celotex

These pictures show the result of a test made by the engineering laboratories of Robert W. Hunt & Co. to determine the relative strength of Celotex and wood as sheathing

He knows that after several years, if it is necessary for him to extend his mortgage, the house will be in excellent condition—still a good risk.

The Celotex plan gets free leads for you

Do you want live leads from people in your community who are in the market for a home? That's just what the Celotex plan turns over to you.

Thousands of inquiries are received from the great Celotex national advertising program. Under the Celotex plan the ones from your community will be turned over to you. *Every* inquiry is a live prospect.

Make the Celotex plan work for you.

Send for the details today. There is no obligation or cost to you.

Mail the coupon below.

THE CELOTEX COMPANY, CHICAGO, ILLINOIS

MILLS: NEW ORLEANS, LA.

Branch Sales Offices: (*See telephone books for address*)

Boston	Denver	Los Angeles	New Orleans	Portland, Ore.	St. Louis
Cleveland	Detroit	Miami	New York	Salt Lake City	St. Paul
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Canadian Representatives: Alexander Murray & Company, Limited

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CELOTEX

INSULATING LUMBER

"THERE IS A USE FOR CELOTEX IN EVERY BUILDING"

Celotex is being advertised to *your* prospects by one of the biggest campaigns in the building field. *Every three days,* a Celotex ad appears in some leading national publication

THE CELOTEX COMPANY, Dept. 267
645 N. Michigan Ave., Chicago, Ill.

Please send me information regarding Celotex.

Name.....

Firm.....

Address.....

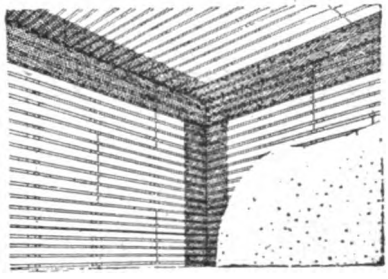
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Easier Building and Better Buildings



WALL TIES

Sykes Economy Wall Ties—the tie that binds. Used for either veneer or solid brick walls.



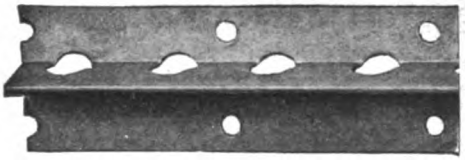
KORNERITE

Sykes Economy Kornerite—prevents the unsightly cracks that appear in the corners of plastered rooms. Use on all corners when wood lath is used on ceilings or walls.



WALL PLUG

Sykes Economy Wall Plugs—solve the problem of fastening furring to any masonry wall. Set wherever you want them without loss of time.



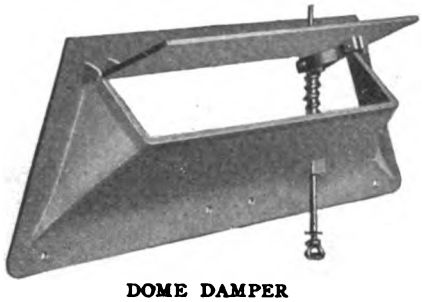
BASE BEAD



CORNER BEAD

Sykes Economy Base Bead—is a practical necessity in forming cement bases for sanitary floors.

Sykes Economy Corner Bead pays for itself in time saved, and makes strong, straight and chipless exposed corners.



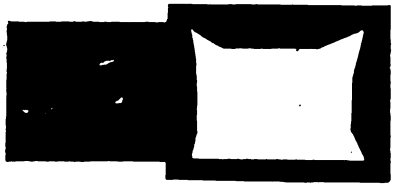
DOME DAMPER

Sykes Economy Dome Dampers—offer a simple and effective means of draft control for the open fireplace. Easily installed. Made in 30 inch, 36 inch and 42 inch width, poker or rod control.



COAL CHUTE DOOR

Sykes Economy Coal Chute—is the cheapest, most satisfactory solution to the coal delivery problem. It is made of unbreakable steel with either wire glass or solid panel door.



ASH PIT DOOR

Sykes Economy Ash Pit Doors—of pressed steel, are both cheaper and stronger than ash pit doors of cast metal.



ASH DUMP



THIMBLE

The Economy Ash Dump—is needed in every fireplace for cleanliness and convenience. Conveys the ashes by chute to the cellar.

The Economy Thimble—adjustable to 6 or 7 inch, is a great help to the mason in forming the stove pipe hole.

A postal will bring samples and catalog.

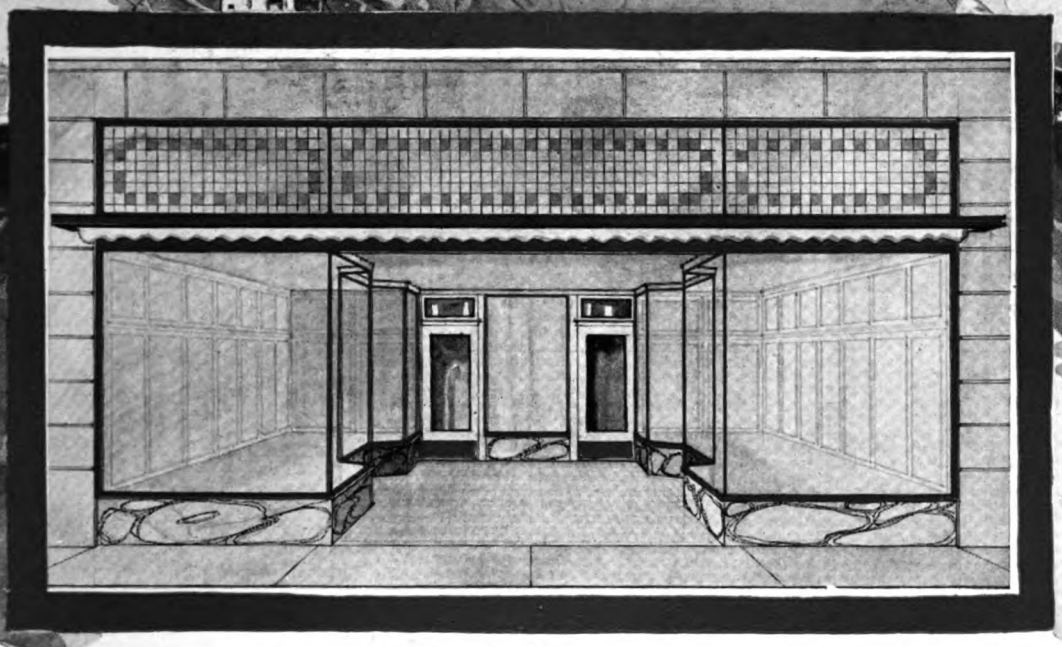
SYKES METAL LATH COMPANY

Metal Lath and Better Building Specialties

NILES, OHIO

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The Trade Ships of Yesterday and TODAY

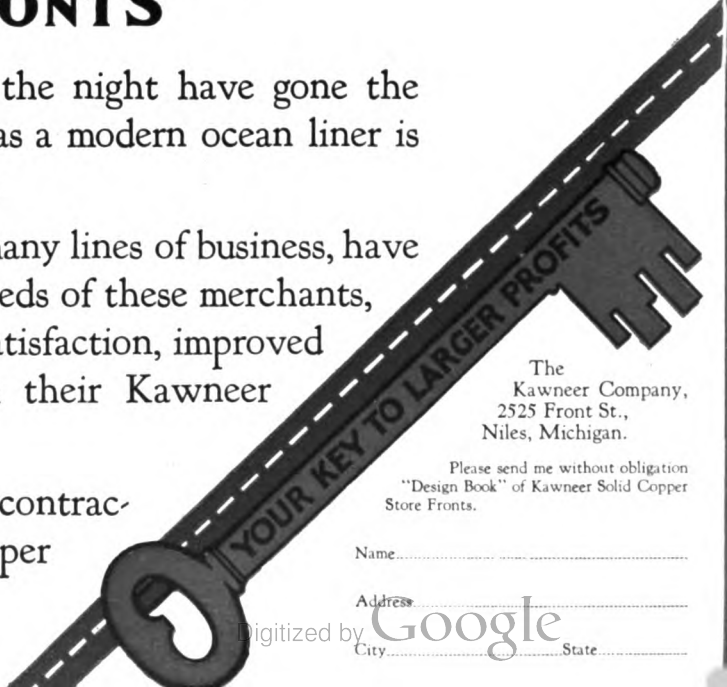


Kawneer
SOLID COPPER
STORE FRONTS

As silently as ships that pass in the night have gone the old-fashioned store fronts. As efficient as a modern ocean liner is the Kawneer Solid Copper Store Front.

More than 260,000 merchants, in many lines of business, have Kawneerized their stores. From hundreds of these merchants, we have received letters telling of the satisfaction, improved appearance, and increased profits from their Kawneer Store Front.

Get your share of this profitable contractor work by using Kawneer Solid Copper Store Fronts in your installations.



The
Kawneer Company,
2525 Front St.,
Niles, Michigan.

Please send me without obligation "Design Book" of Kawneer Solid Copper Store Fronts.

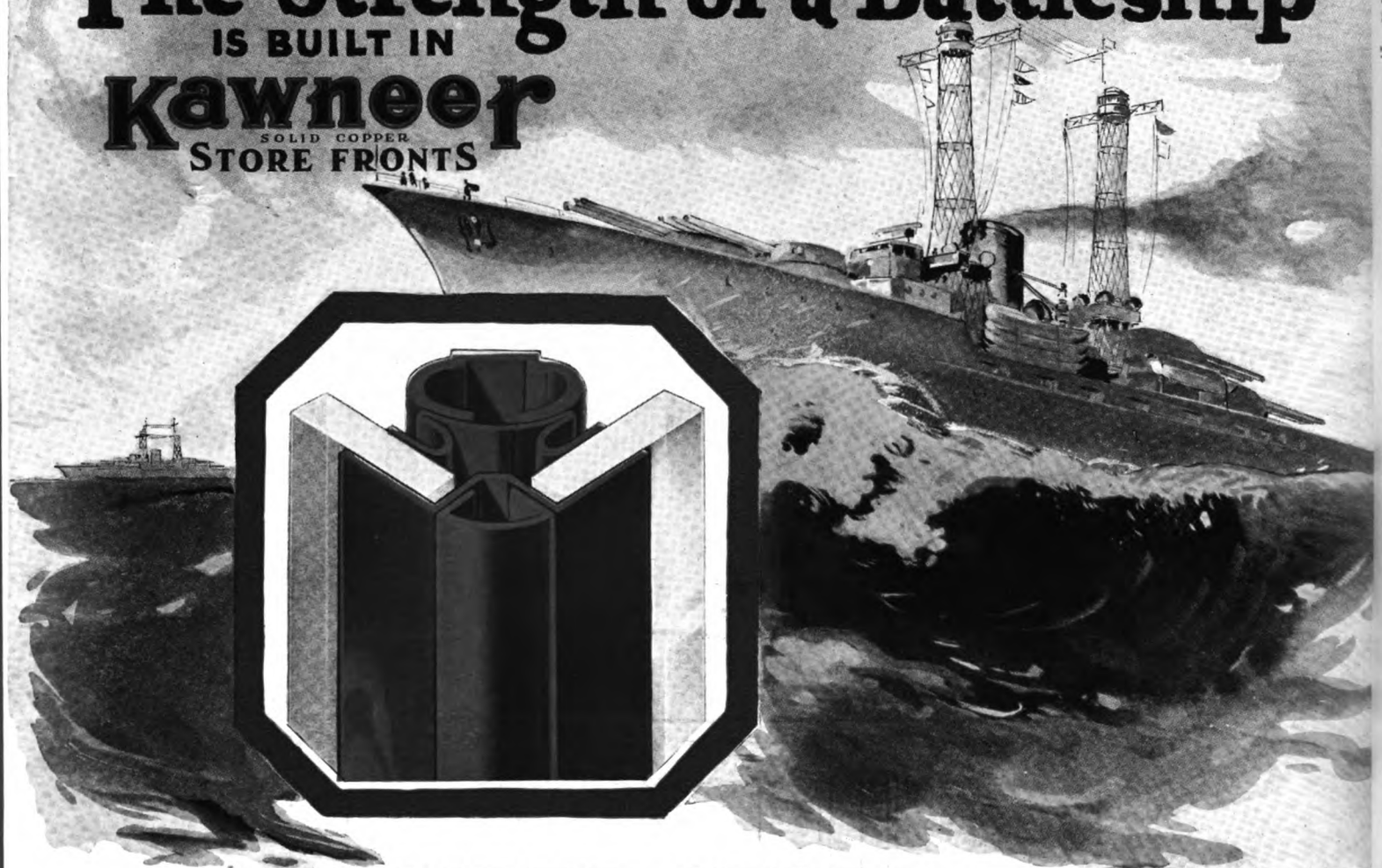
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The Strength of a Battleship
IS BUILT IN
Kawneer
SOLID COPPER
STORE FRONTS



KAWNEER STORE FRONTS WITHSTAND THE ELEMENTS

Year after year, Kawneer Solid Copper Store Fronts retain their beauty of design and strength of construction against the fierce onslaught of rain, wind, snow and sleet. Kawneer construction holds the finest plate glass in its spring-like resilient grip, resisting the most severe stress and strain.

Note the six superior points of Kawneer construction illustrated herewith.


PERMANENCY


RUGGED STRENGTH


BEAUTY *of* DESIGN


RESILIENCY


VENTILATION


EASE *of* INSTALLATION

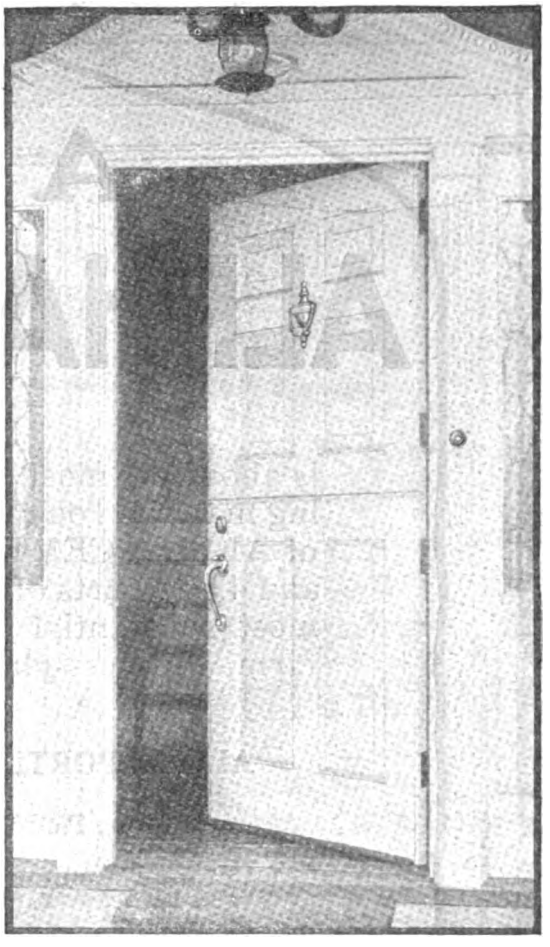
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Build for tomorrow and *use Sargent Hardware*

THIS is the Sargent message to prospective home buyers and builders through the advertising pages of foremost magazines. "Build for tomorrow!" This must be the big idea behind the plans of every speculative builder, every contractor builder—indeed of every man or business seeking to survive today.

Sargent Locks and Hardware of solid, time-resisting brass or bronze will help you build for tomorrow. The slight extra cost is more than justified by doors that swing smoothly on quiet hinges. Knobs and handles that are beautifully designed and lastingly built. Lock sets and window fasteners that insure protection and faultless service.

Your prospective buyers or your clients almost invariably judge the worth of your building by the appearance and operation of details such as these. The prestige-building praise or costly criticism to come will spring, as you well know, almost entirely from so-called "little things."

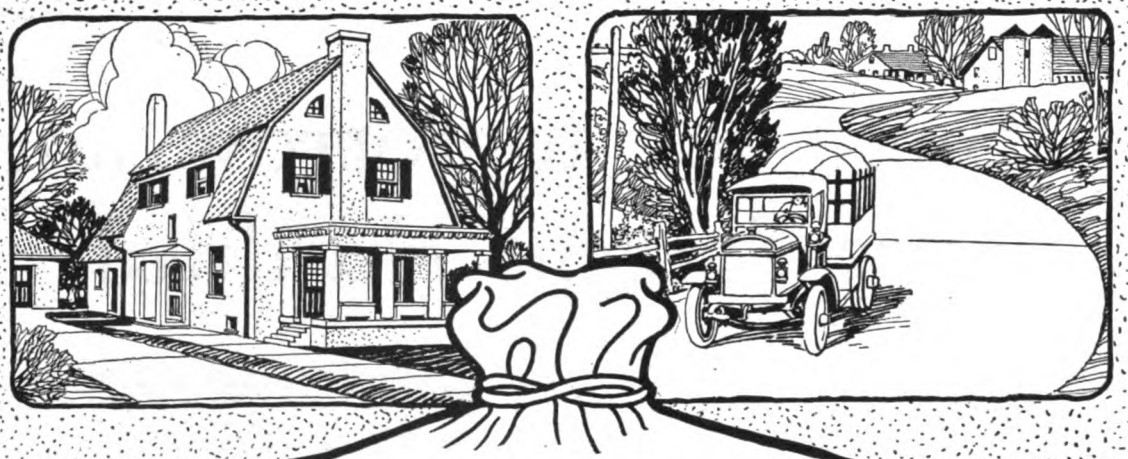


Sargent Hardware for buildings of every style and price

SARGENT & COMPANY, *Hardware Manufacturers,* 52 Water Street, New Haven, Conn.

SARGENT
Locks & Hardware

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A Bag of ALPHA CEMENT

is about the most economical package of building material you can buy, for it takes only 1 part of ALPHA CEMENT to 2 to 2½ parts of sand and 4 to 5 parts of stone, or gravel, to make the most substantial and permanent home, yard, farm, business-place and civic improvements.

ALPHA PORTLAND CEMENT COMPANY

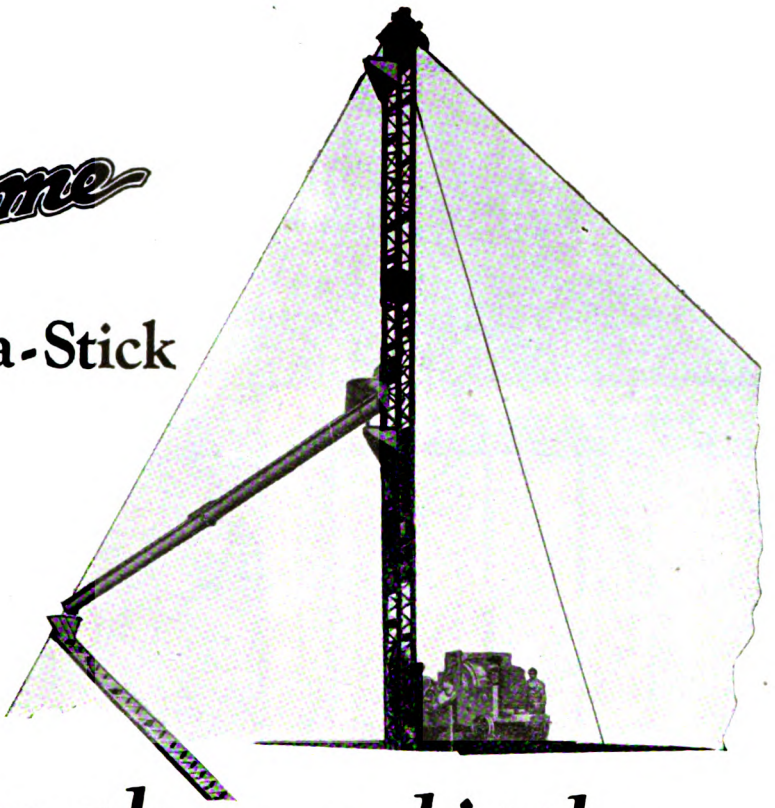
Easton, Pa. **Chicago, Ill.**

New York Boston Philadelphia Pittsburgh Baltimore
St. Louis Battle Creek, Mich. Ironton, Ohio

The ALPHA Dealer is the Cement-Service man of your community — "Call on him"

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The Ransome Monkey-on-a-Stick



It makes a little go a long way—

Within its limits it will do anything that any tower will do—will carry a Boom Chute Plant, a Continuous Line Plant or a Bin Plant and the cost is considerably less. It's easy to erect or dismantle and on a job where a comparatively small amount of concrete is to be distributed over a relatively large area—as in "development" groups, etc.—it will pay for itself in short order. Contractors who have used the Ransome Monkey-on-a Stick are enthusiastic about it.

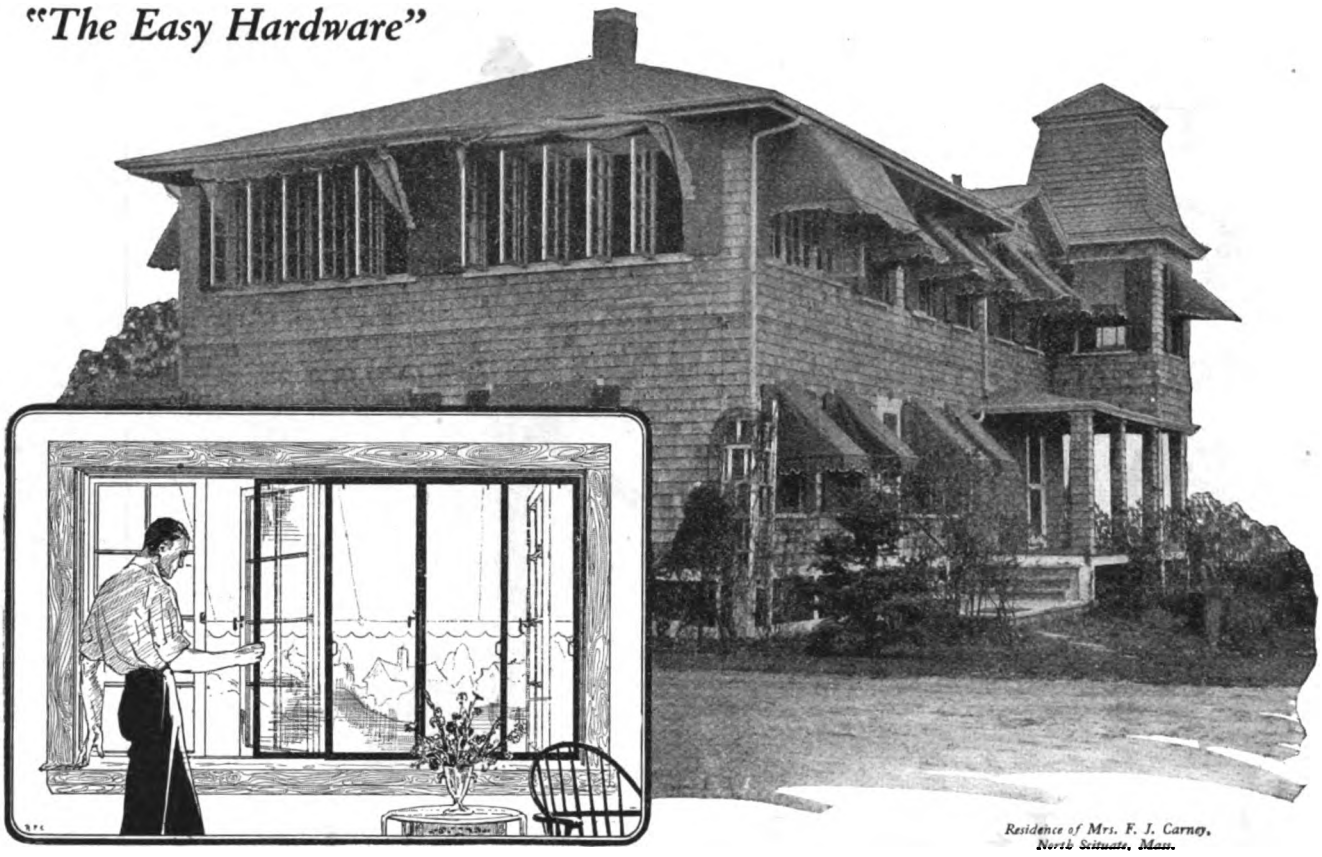
RANSOME CONCRETE MACHINERY CO.
Main Office and Plant, Dunellen, N. J.
Chicago Office and Warehouse, 1353 West Washington Blvd.
Complete Stock and Service
Concrete Mixers, Pavers, Pneumatic Mixers, Chuting Plants, Hoists, Buckets, Bins, Cars, Carts, etc.

8100

Without obligation on my part, please send me information on:—
Ransome Concrete Mixers, sizes, 3½-S [ ]; 7-S [ ]; 10-S [ ]; larger sizes [ ]. Steam Drive [ ]; Gasoline Drive [ ]; Electric drive [ ]. Tilting Mixer, size, 3½-S [ ]. Concrete Chuting Plant for Building.....ft. long by.....ft. wide by.....ft. high.
Name..... Address.....

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"The Easy Hardware"



Residence of Mrs. F. J. Carney,
North Scituate, Mass.

WHITCO—and Screens

WHITCO EQUIPPED casements are easy to screen.

They present no more difficult problem than the conventional double-hung-window.

Compared with the ordinary casement installation, they are simplicity itself.

The fact that WHITCO takes the place of both butts and adjusters, and holds the sash in any position in any wind, not only insures a better installation, but WHITCO, being entirely concealed, makes it possible to place the screens much closer to the sash than when butts and adjusters are used—thus economizing jamb space.

In the case of single sash and pairs of sash, the screens may be hinged to swing in, either at side or top, or double-sliding, vertically.

With multiple sash in wide openings without mullions, the screens may be hinged to swing in, or arranged to slide horizontally, as illustrated.

The screen frames may be wood or metal as desired.

We shall be glad to hear from you if you need further information.

Whitco makes it easy and safe to clean the outside of a casement from within the room.



You can buy WHITCO from your Hardware Dealer.

In Solid Brass—per Set, (*the equipment for one sash or transom*) **$2.25**
In Rust Proofed Steel **$1.75**

VINCENT WHITNEY COMPANY

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CASEMENT WHITCO HARDWARE

Eastern Offices:
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Send all inquiries to nearer Office.

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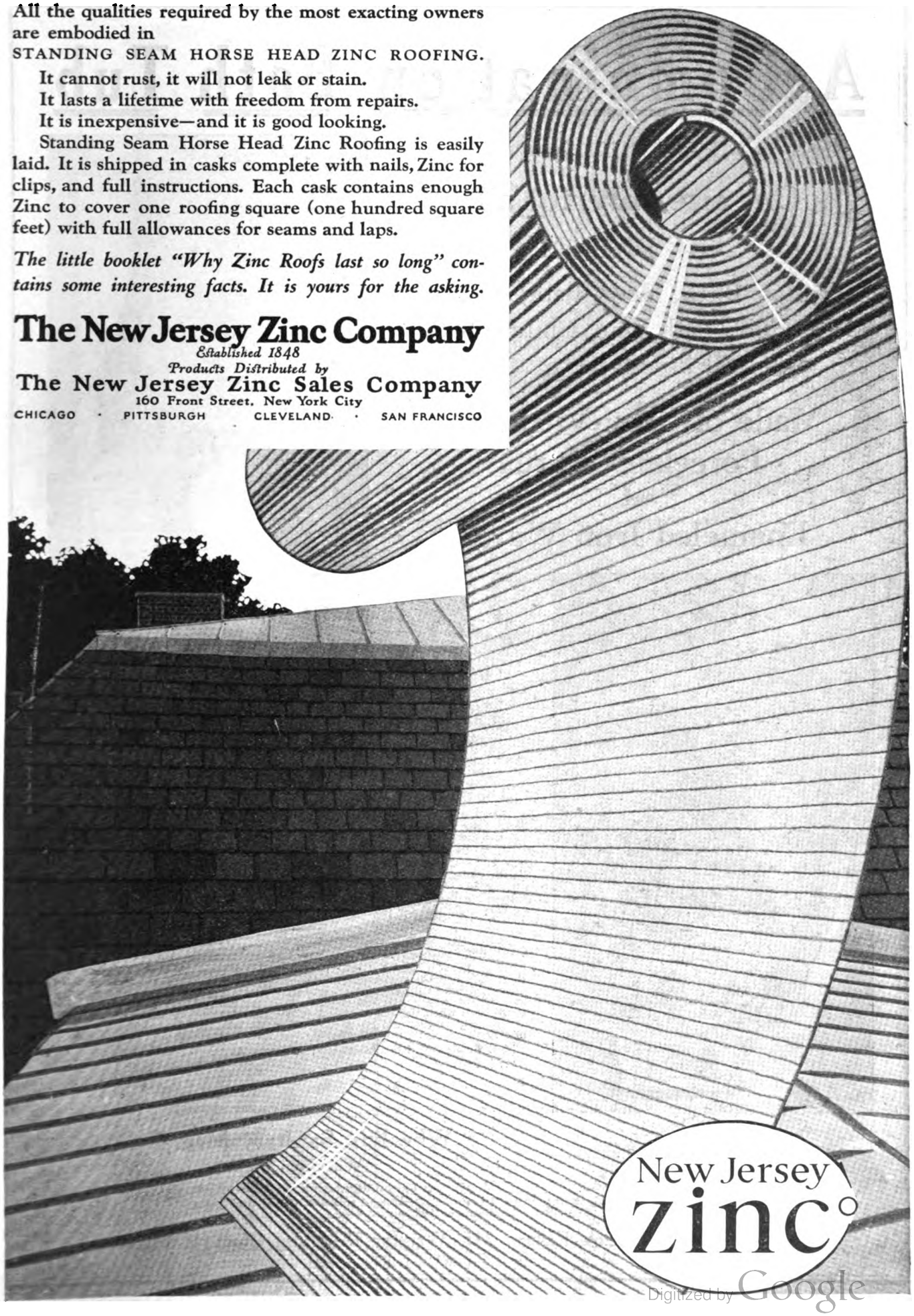
All the qualities required by the most exacting owners are embodied in
STANDING SEAM HORSE HEAD ZINC ROOFING.

It cannot rust, it will not leak or stain.
It lasts a lifetime with freedom from repairs.
It is inexpensive—and it is good looking.

Standing Seam Horse Head Zinc Roofing is easily laid. It is shipped in casks complete with nails, Zinc for clips, and full instructions. Each cask contains enough Zinc to cover one roofing square (one hundred square feet) with full allowances for seams and laps.

The little booklet "Why Zinc Roofs last so long" contains some interesting facts. It is yours for the asking.

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Established 1848
Products Distributed by
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A Combination Bath Tub

—PATENTED—

One size only, for all size people

Regular Bath, Seat Bath, Shower Bath, Foot Bath, and Child's Bath, all in one-piece

Made of Semi-Vitreous Porcelain Ware

and

Enameled Iron Ware

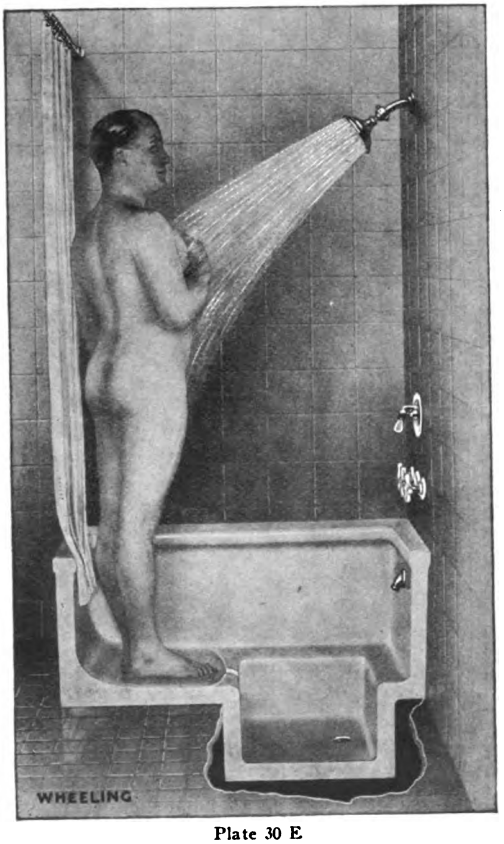


Plate 30 E

Semi-Vitreous Porcelain Ware, 44x30 inches to tile in right or left hand corner, or in recess. Glazed white all sides. Only one size made.

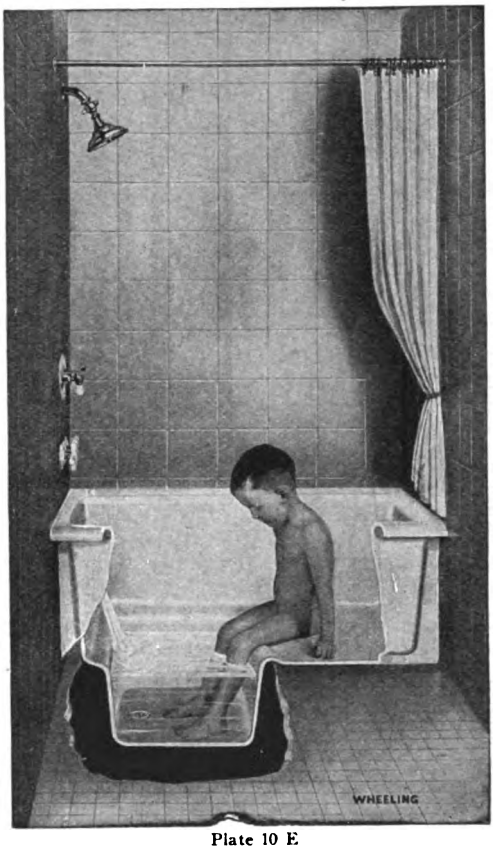


Plate 10 E

Enameled Iron Ware, 44 x 30 inches to tile in recess only. Enameled white front. Waste in foot section either right or left hand end. Only one size made.

Testimonials

Mr. T. H. Kelley, 158 E. 188th St., New York City, says:

"I had installed in my house several months ago, one of your Combination Bath Tubs fitted complete with shower and curtain, and I cannot say too much in recommending this fixture and am glad I decided on this new type of tub, as it gives the bathroom features that other pattern tubs do not have.

"I am a man weighing two hundred pounds and the tubs have ample room for one of my size to properly bathe.

"You are at liberty to use this letter in any way to advance the use of this fixture, as I cheerfully recommend this tub to anyone, and if I were to equip another bathroom for my own use, or for sale, I would use this Combination Tub."

Dr. Herman N. Bundesen, 7414 Oglesby Ave., Chicago, Ill., installed one of these tubs in his new residence a year ago, and remarks as follows:

"It is the best fixture I ever saw, and I would not be without it for anything. It is most economical in the use of hot water, and this is a decided advantage where instantaneous gas water heaters are used. Furthermore, it is an ideal tub where there are children, as it can be used to great advantage as a foot bath when the children come in dirty from playing. The shower feature is also an advantage which I greatly enjoy. In fact, this tub is most acceptable in every way, and I most thoroughly recommend this fixture."

Mrs. Bundesen is equally as enthusiastic as the Doctor, and states:—

"It is a wonderful bath."

Sold through jobbers of Plumbing Supplies
Write us for descriptive circular

Wheeling Sanitary Mfg. Co.

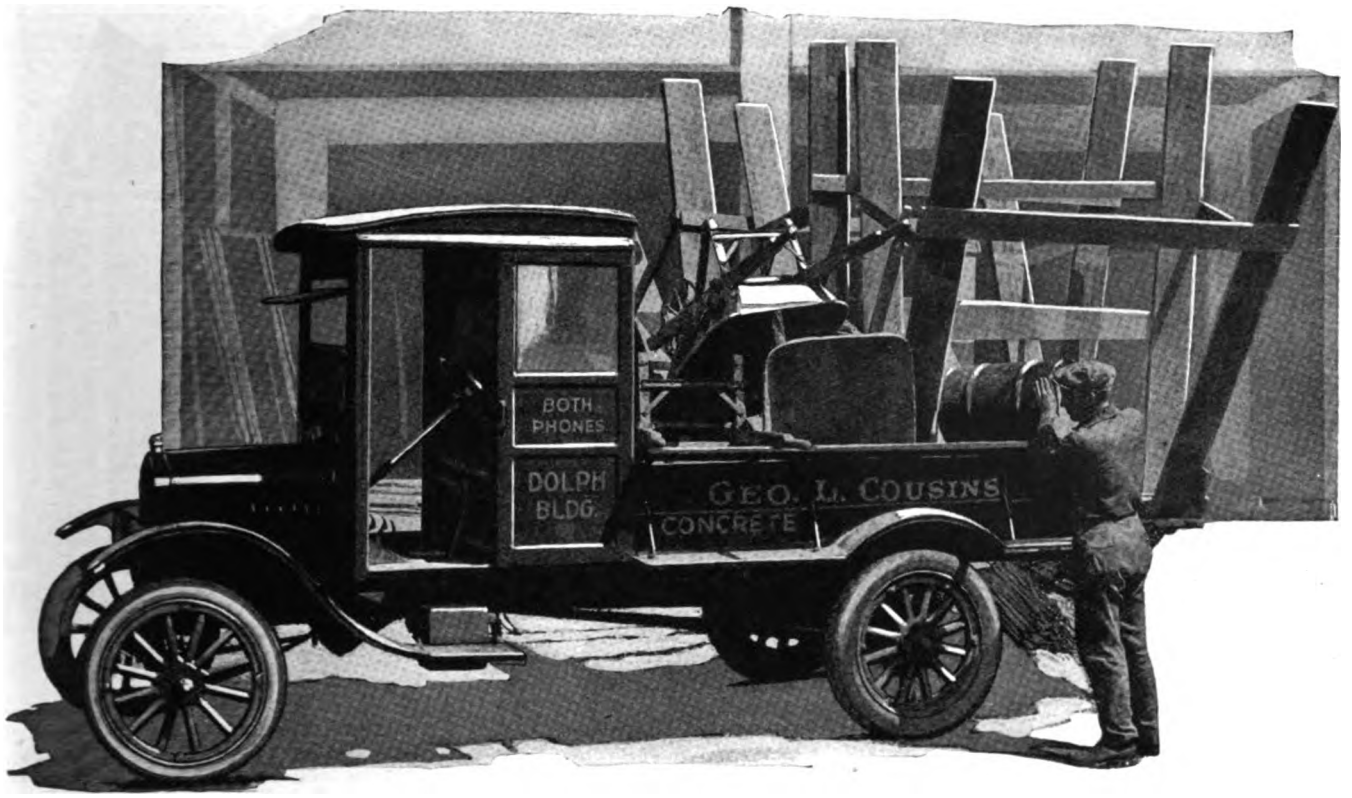
Wheeling, W. Va.

Vitreous China-Closet, Bowls and Flush Tanks of all kinds.

Semi-Vitreous Porcelain Baths, Sinks, Lavatories, Drinking Fountains, Urinal Stalls, etc.
Enameled Iron—Baths on feet and on base.

Branch Office and Show Room: 315 Wrigley Building, Chicago, Illinois

Digitized by Google



Reducing Non-Productive Costs

Time wasted in between jobs—when men must be moved from one place to another—creates expenditures which eat into the profits of the company. The problem then becomes one of securing a speedy, reliable means of transferring materials and equipment.

In searching for a solution to such a case, the firm of G. L. Cousins & Co., Contractors, of St. Louis, Mo., found the answer in Ford One Ton Trucks. G. L. Cousins, President, says: "We now save practically the entire whole day's expense of running a Ford when we drive three of our men from one job to another."

He further adds, "Six years ago we replaced our heavy trucks with Ford Ton Trucks because they cost less than half to buy and to operate."

These same economies are available for your business. An authorized Ford Dealer will show you how to make the change and what your net savings will amount to.

Ford One-Ton Chassis — $365—f. o. b. Detroit

Ford

CARS · TRUCKS · TRACTORS

July 13th to 18th is FORD TRUCK DISPLAY WEEK

This week Authorized Ford Dealers everywhere throughout the United States will have on display and be prepared to give demonstrations of all types of Ford-built truck bodies. It is an exceptional opportunity to learn how Ford equipment can bring a new economy into your business. You are invited to take advantage of it.

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MURPHY IN-A-DOR BEDS

—the Choice of All Leading ARCHITECTS of the Country

(1) 215 W. 75th St., New York City. Schwartz & Gross, Architects.
(2) Sherman Square Apartments, N. Y. City. H. Sohn, Architect.
(3) 2100 Walnut St., Philadelphia, Pa. Ballinger Co. Architects.
(4) Loutellus Apartments, Pittsburgh, Pa. E. F. Woods & Co.—H. Hornbostel, Architects.
(5) 1832-34 Spruce St. Apartments. Ballinger Co., Architects. Roberts & Roller, Builders.
(6) Mayflower Hotel, Washington, D. C. R. F. Beresford—Warren & Wetmore, Architects.
(7) Westbrook Apartments, Buffalo, N. Y. North, Shelgren & Swift, Architects.
(8) White Hotel, 37th & Lexington Ave., New York City. C. B. Meyers, Architect.
(9) Morrowfield Apartment Hotel, Pittsburgh, Pa. Watkins Realty Co., Builders.
(10) Alden Park Manor, Brookline, Mass. C. C. Mitchell & K. M. DeVos, Owners and Builders.

The Murphy method of one room serving as two, is just as applicable to homes (large and small) as it is to apartments. Thousands of home installations attest to this fact all over the country.

"There is Only One In-A-Dor Bed —THE MURPHY"

Write for a Copy of the New Murphy Blue Print Manual

IT'S FREE The new Murphy Blue Print Manual is not an advertisement—it is a technical guide to save time, trouble and worry for architects, builders and owners of apartments, apartment hotels and hotels. Send for your copy today.

There Is No Substitute For The Genuine Murphy In-A-Dor Bed

Apartments and homes designed and built around the Murphy Bed idea are conceded by the country's leading Architects, Builders, and Owners to be the highest development of the concealed bed principle. Its exclusively patented method of installation is the reason for its tremendous popularity. Let the experience of the thousands of Murphy users be your guide—an investigation will prove their judgment sound.

MURPHY DOOR BED COMPANY

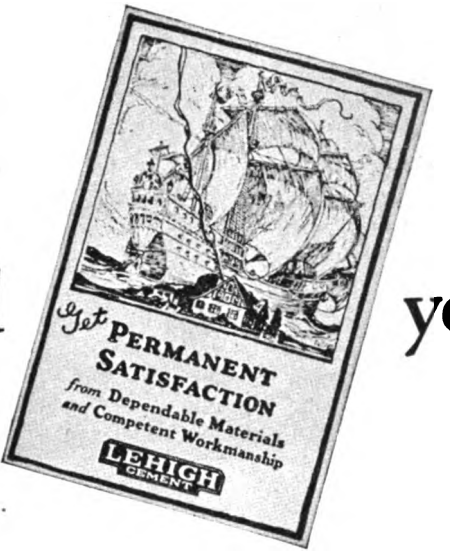
OFFICES IN ALL PRINCIPAL CITIES

ADDRESS THE NEAREST OFFICE

Chicago, Illinois.....22 W. Monroe St.	New York City.....19 W. 44th St.
St. Louis, Mo.....315 N. 10th St.	Atlanta, Ga.....204 Arcade Bldg.
Detroit, Mich.....7th Flr., Kresge Bldg.	Seattle, Wash.....Terminal Sales Bldg.
Nashville, Tenn.....1713 W. End Ave.	San Francisco, Calif.....Crocker Bldg.
Cleveland, O.....1140-42 Hanna Bldg.	Los Angeles, Calif.....1807 S. Main St.
Kansas City, Mo.....1114 Grand Ave.	Denver, Colo.....1534 Blake St.
Dallas, Texas.....1919 Pacific Ave.	Ottawa, Can.....205 O'Connor St.
El Paso, Tex.....Neff-Stiles Bldg.	Montreal, Can.....15? Peel St.
New Orleans, La.....319 Dryades St.	St. Petersburg, Fla....225 Second Av. S.
	Miami, Fla.....234 Columbia Bldg.

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Use these to help build your business



YOUR customers all want the same thing, whether they build houses, stores, walks, or garages. They want satisfaction—*permanent* satisfaction. The more you can develop your reputation for selling permanent satisfaction, the more certain you are that your business is on a lasting foundation.

Here is one of the aids we have to help you in your plans for building such a reputation—the Lehigh Poster Stamps. They say, "Get Permanent Satisfaction from Dependable Materials and Competent Workmanship."

Put them on bills, statements, envelopes and letters.

They will help to build confidence in you among your prospects and customers, confidence in your product, confidence in your methods of doing business. They say that *you* sell permanent satisfaction.

Let us tell you more about our complete campaign of selling helps. Write for details or request a salesman to call.

LEHIGH PORTLAND CEMENT COMPANY

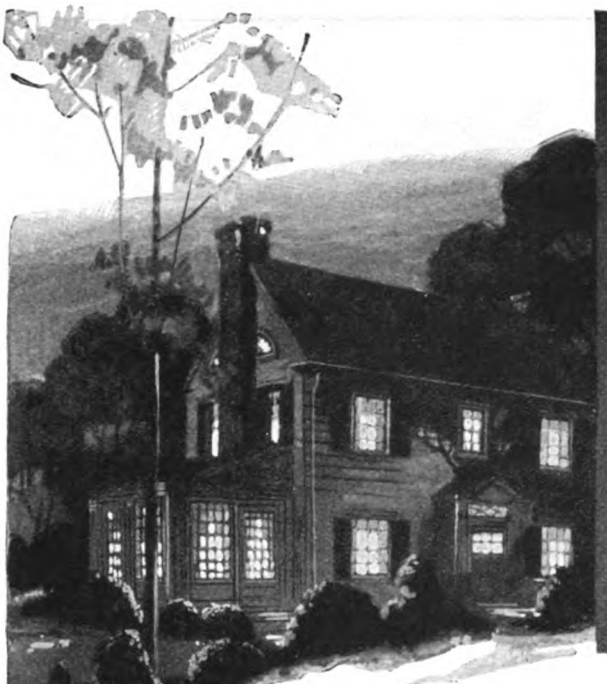
ALLENTOWN, PA.
BIRMINGHAM, ALA.

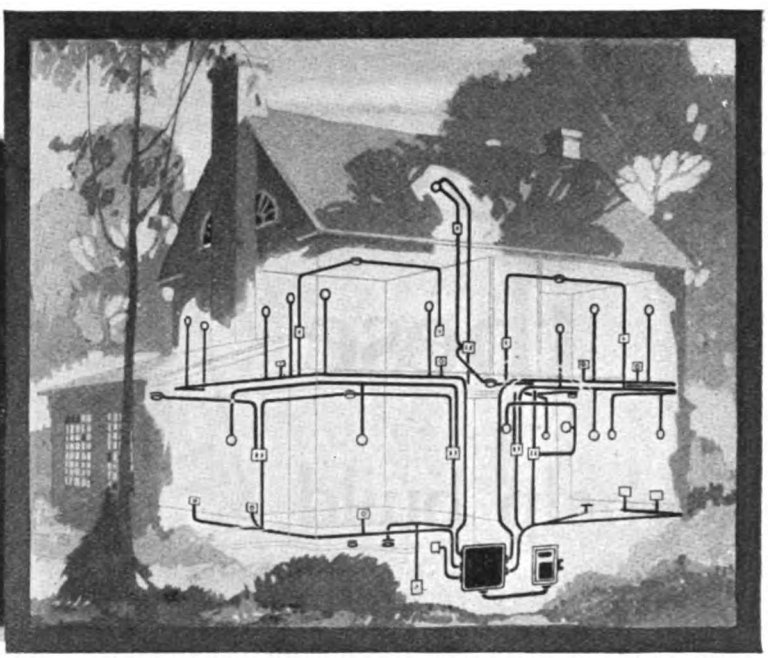
LEHIGH CEMENT

CHICAGO, ILL.
SPOKANE, WASH.

19 MILLS FROM COAST TO COAST

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Put *quality wiring* inside the walls

Build quality inside the walls of every house. It pays! When you put a network of wiring under lath and plaster, be sure you are putting it there to stay. A General Electric wiring system built into a home not only adds to the builder's reputation for quality work—but adds greatly to the selling value of a house.

A short while ago, a wiring system meant nothing to the average house buyer. Now—due to the continued campaigning in the Saturday Evening Post—a G-E wiring system means *quality* to him, and the few dollars of possible extra cost involved in installing a G-E system throughout gives the builder a most valuable selling point.

Have you received our helpful booklet on complete wiring, "The Home of a Hundred Comforts"? Send for a copy.

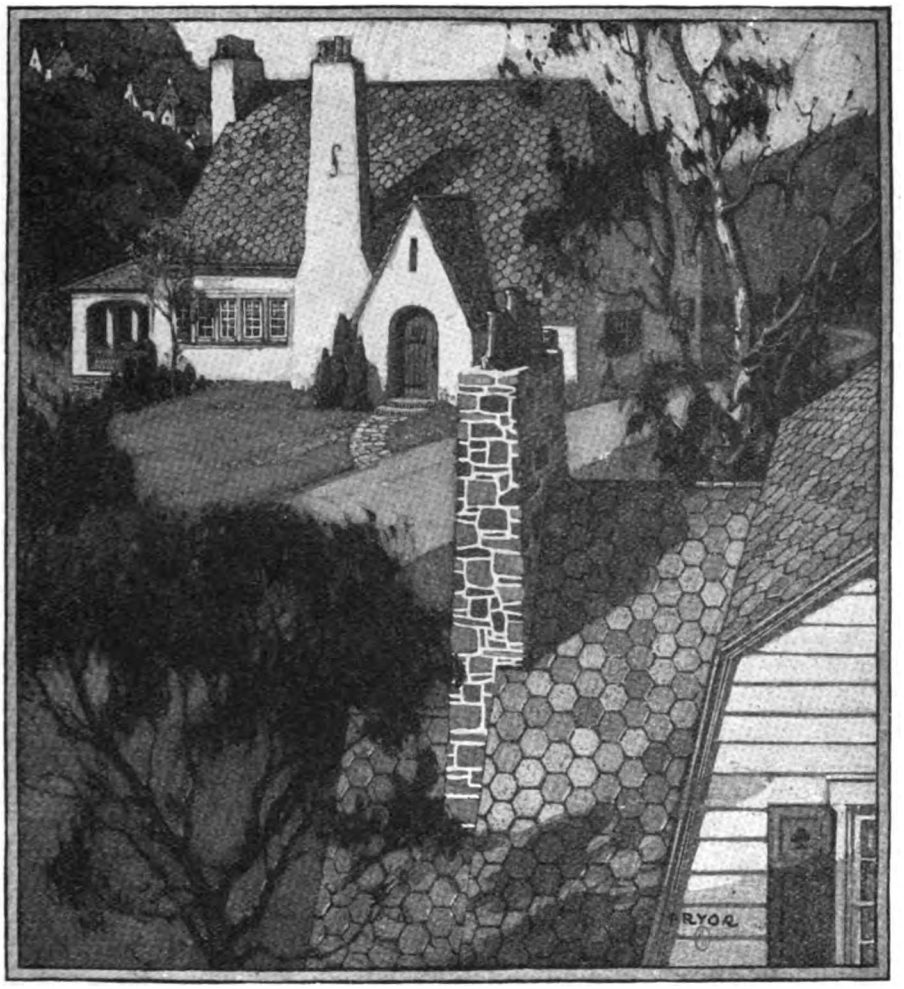
Section BA-7
Merchandise Division
General Electric Company
Bridgeport, Connecticut



GE WIRING SYSTEM
—for lifetime service

GENERAL ELECTRIC

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A distinctive roof makes a distinctive house

PRESTON Shingles add a pleasing note of individuality to any pitched roof, whether a mansion or a cottage. The natural colors of Preston Shingles are extremely attractive and harmonize with any type of architecture.

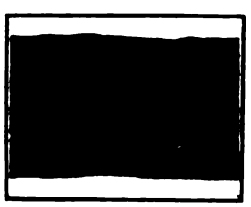
An added note of distinction is given by the Hexo-Diamond design—a pattern which makes a series of uniform hexagons. These shingles are self-spacing.

Preston Shingles are made in three weights, Heavy Standard, Extra Heavy and Massive, and beside the Sunset shade in three colors: Green, Blue-Black and Red.

The "Massive" weight is approximately one-third thicker than a Standard No. 1 slate shingle and is much thicker than any other slate surfaced asphalt shingle on the market. Architects have welcomed a thickness that would create the shadow line necessary for high-grade work.

We shall be glad to send you the name of our Regional Distributor on request.

KEYSTONE ROOFING MANUFACTURING COMPANY,
Dept. C-7, York, Pennsylvania

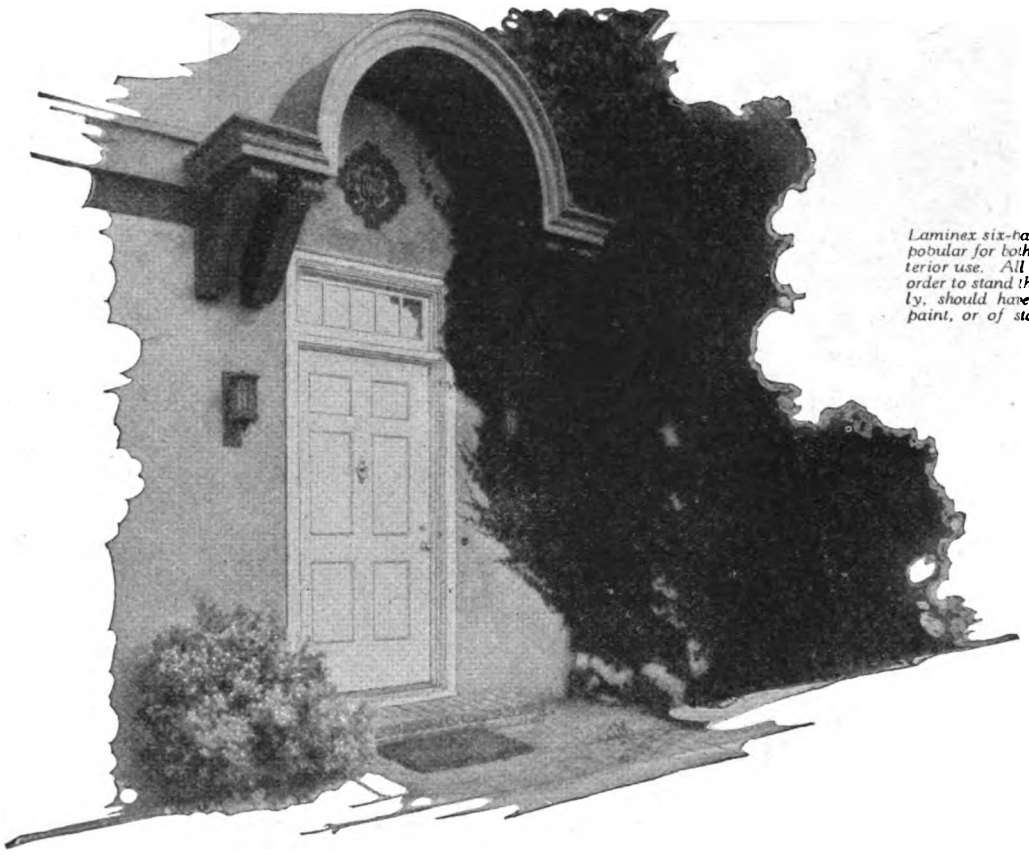


Microscopic Enlargement

THE wearing qualities of Preston Shingles are dependent not only on the quality, but also on the quantity of asphalt which each shingle contains. If you examine the edge of a Preston Shingle you will notice that it is practically a solid body of asphalt. This feature of Preston Shingles accounts for their remarkable wearing qualities.

Preston
ROOFING

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Laminex six-panel Colonial door, popular for both exterior and interior use. All exterior doors, in order to stand the weather properly, should have several coats of paint, or of stain and varnish.

And Laminex *Colonial* doors, too!



SINCE originated a year ago by the Forest Products Laboratory, University of Washington, this famous Laminex water test has been successfully repeated by Dayton Sash and Door Company, Dayton, McPhee and McGinnity, Denver; Hortman Company, New Orleans; Tacoma "Own Your Home" Exposition, Tacoma; Cole Manufacturing Company, Memphis; Macauley, Brooklyn; California Industrial Exposition, San Francisco; South Texas Fair, Beaumont, and other leading door distributors and building material expositions. Under this rigorous test, no Laminex door has ever warped or come apart.

WHEN THE PRACTICAL SIDE of your nature specifies "*built-up*" Laminex doors to prevent trouble from warping and twisting, nothing need be sacrificed by your *artistic* sense. *Laminex* is made in a wide variety of beautiful models to help interpret your ideas of beauty and simplicity in interior and exterior entrances.

Consider the Colonial door shown above. Although *Laminex* doors are made with both flat grain and vertical grain stiles and rails, the vertical grain, which takes paint and enamel best, is especially recommended for this type.

\+ + + + +

Laminex is the door you see tested in water tanks at leading building shows. It is a widely-advertised door that within a year has won its way on merit with architects and builders and is now found in prominent homes, apartments and public buildings.

The million dollar *Parkview Hotel Apartments*, at Memphis, Tenn., for instance, are *Laminex-equipped* throughout.

Laminex doors bear the Laminex replacement guarantee. Look for it. If *Laminex* is not readily obtainable write us for the name of nearest distributors. Ask for special architects' and builders' monograph and free sample of Laminex wood so that you may make the famous water test yourself.

THE WHEELER, OSGOOD COMPANY, Tacoma, Washington

Sales Offices: *New York, Chicago, Memphis, Los Angeles, San Francisco, Spokane, London, England*

Manufacturers of Laminex Doors Woco Doors and Fir Sash

LAMINEX DOORS

WILL NOT SHRINK, SWELL OR WARP

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We shall be glad to send you an illustrated booklet which fully explains the modern idea in house heating.

Many real estate operators have adopted Capitol Boilers and United States Radiators as standard equipment in their community building plans.

This is good business for the operators because a Capitol installation will make any residence more saleable.

It is a splendid thing for the prospective home owners because the important matter of heating is definitely settled on a basis of quality equipment.

The home with a Capitol will *always* be a preferred home. Any heating contractor or architect will gladly confirm this statement.

UNITED STATES RADIATOR CORPORATION
General Offices, Detroit, Michigan

Capitol Boilers

This Advertisement Appears in National Magazines in June

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Jaeger
A MIX A MINUTE



THE 5L-CT Jaeger illustrated on the left is the famous One-Sack Jaeger Mixer with Power Loader, which increases the output of a mixer 50 to 75%. While one batch is being mixed, another is being assembled. The 5-L is also equipped with the exclusive Jaeger Tip Over Accurate Measure Water Tank and the Gravity or Balanced Automatic Discharge Device described below.

Jaeger Mixers—The First Choice of 30,000 Contractors!

JAEGER Service has placed Jaeger Mixers in the forefront of all concrete mixers. Chosen by thousands of contractors for every type of construction work, the Jaeger is backed by the reputation—character—and resources of an internationally known organization. *Every Jaeger sold means that a contractor has bought guaranteed service and satisfaction.*

12 Extra Batches An Hour

THAT is what it means to use a Jaeger Mixer on every job. The Jaeger Automatic Dumping Device tilts the drum from the revolving position to discharge position in less than two seconds. It returns it to the mixing position in the same time. You save 10 seconds on every batch—twelve extra batches an hour. Think what that means in time and money saved on every job!

The Jaeger Tilting Drum is built to turn out the most thorough mix in the shortest possible time. Its especially designed paddles slice through the batch turning it back on flat spots exactly placed to force the materials forward and complete a perfect mix.

Jaeger's Volume Production Means Lower Prices!

The huge Jaeger Plant builds one thing exclusively—the best concrete mixers made. And this specialization means volume purchases—increased factory efficiency—lower overhead—international sales outlets—and lower prices. *Every contractor can buy the Original Jaeger Tilting-Drum Mixer at the same or lower prices than machines which are distinctly inferior.*

Write us today for catalog and the name of the Jaeger dealer in your town.

Jaeger Builds 36 Different Mixing Outfits. All Jaeger Mixers Comply with the A. G. C. Standards of Guaranteed Working Capacity

ALL TILTING-DRUM MIXERS ARE NOT JAEGERS

"The Jaeger" is far superior to any mixer made, and should not be confused with inferior machines, even though they be of the tilting-drum type. Protect yourself by getting the "genuine Jaeger." Look for the name on the drum, and the flat spots inside.

Write us for the name of the distributor nearest you.

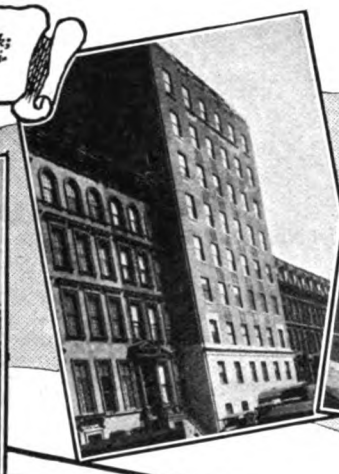
Stocks Carried in All Principal Cities

The Jaeger Machine Company

216 Dublin Avenue **Columbus, Ohio**

Digitized by Google

"121 East 60th St.," New York; Professional Building; Architects, Ewing and Allen.





"155 East 49th St." Apartments, New York; Architects, Ewing and Allen.



"620 Park Ave." Apartments, New York, Architect J. E. R. Carpenter.



"760 Park Ave." Apartments, New York; Architects Rouse and Goldstone.

STARRETT BROTHERS
INCORPORATED
BUILDERS
202 MADISON AVENUE
NEW YORK
TELEPHONE VANDERBILT 6280

ANDREW J. EKEN
VICE PRESIDENT

The Kernerator Company,
465 Lexington Avenue, New York, N.Y.

Gentlemen:

Attention of Mr. Russell Dean, V-P.

In response to your enquiry, we are glad to state that we have installed Kernerators in the apartment houses we have erected or are building at:

620 Park Avenue
760 Park Avenue
800 Park Avenue
860 Park Avenue
510 Park Avenue
121 East 60th St.
155 East 49th St.

These buildings run from nine to fifteen stories in height, and in most of them, the Kernerator receiving door is located in the kitchen of each apartment.

The Kernerator has proven satisfactory to us in every respect. The fact of repeat orders given as above should be the strongest proof you could ask.

Very truly yours,
STARRETT BROTHERS, Incorporated.
By Andrew J. Eken
Vice-President

March 21, 1925.



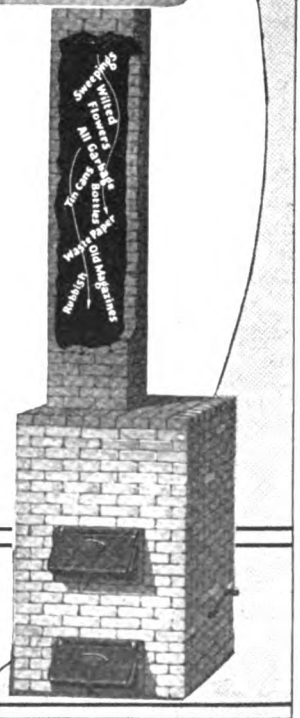
Kind Words From Starrett Brothers

WHEN Starrett Brothers specifiy certain equipment as standard (and continue to do so over a long period of time) it means that the equipment has met their severe and critical tests.

Hence, Mr. Andrew J. Eken's letter reproduced above, is significant of the increasing tendency among architects, builders and realtors, to make the time-tried Kernerator the standard means of instant and complete garbage and waste disposal.

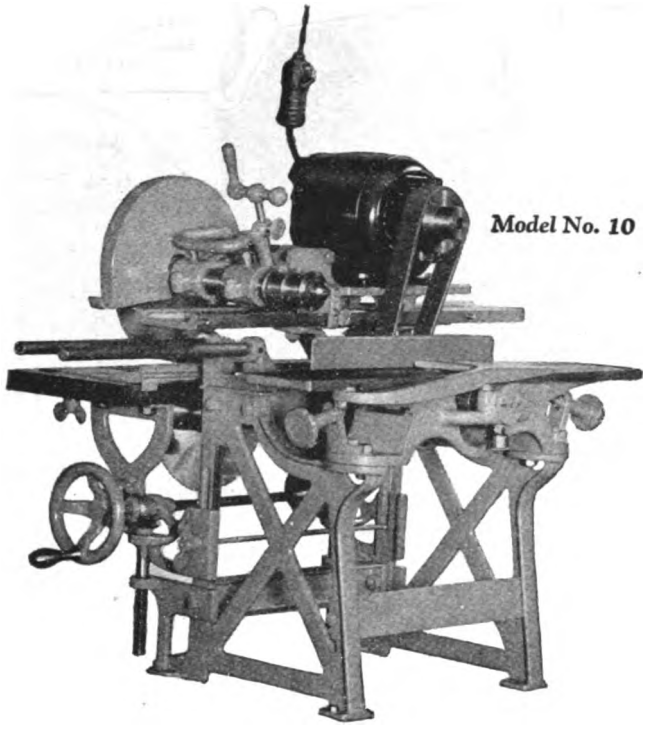
For details, consult Sweet's (1924) pages 2536-37, or write

KERNER INCINERATOR CO., 1027 Chestnut St., Milwaukee, Wis.



KERNERATOR
Built-in-the-Chimney
Reg. U. S. Patent Office

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Model No. 10

Runs from a Lamp Socket

A Marvelous Machine for Inside Finishing

This is the Model No. 10, specially adapted for inside finishing.

While the "Master" is made in three larger models, suitable for heavy mill work and for making every cut necessary in house building, this smaller easily portable Model No. 10 is a machine that every contractor and shop should own—even though they also own a larger model.

It handles 1" stock. It saves over one half the labor cost on cupboard, shelving, cabinets, stair, strings, windows, door jambs, and so forth, and can be adjusted to make any cut as quickly as work can be placed to cut by hand. And the cuts are made almost instantly.

When carpenters and contractors learn of the big savings in time and money they can make with this machine, they will no more think of sending out a carpenter without a Master Woodworker than they would now think of sending him away without a hand-saw.

MASTER WOODWORKER

Weighs only 160 lbs., and is small enough to fit into a standard carpenter box at night.

Sold on easy monthly payments. Money refunded within any reasonable time if you are not thoroly satisfied.

Mail Coupon for full details. Its low price and easy payment terms will surprise you.

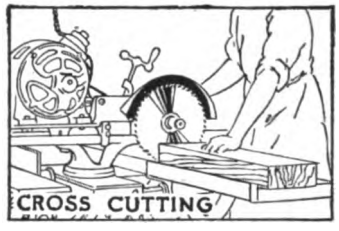
Master Woodworker Mfg. Co.
612 Brush Street, Dept. A
Detroit, Michigan

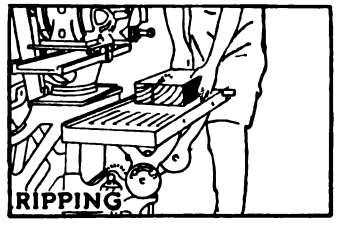
Send me your New Catalog and Easy Payment Plan.

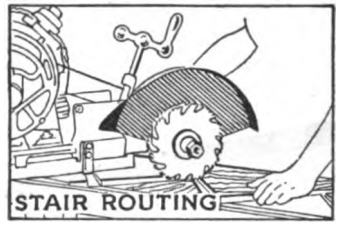
Name _____

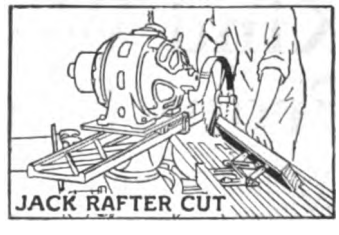
Address _____

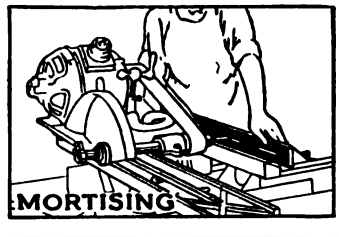
It is 12 Machines in One

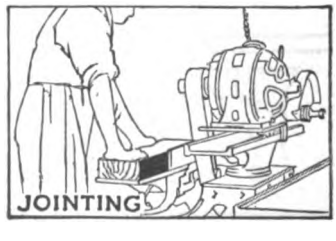




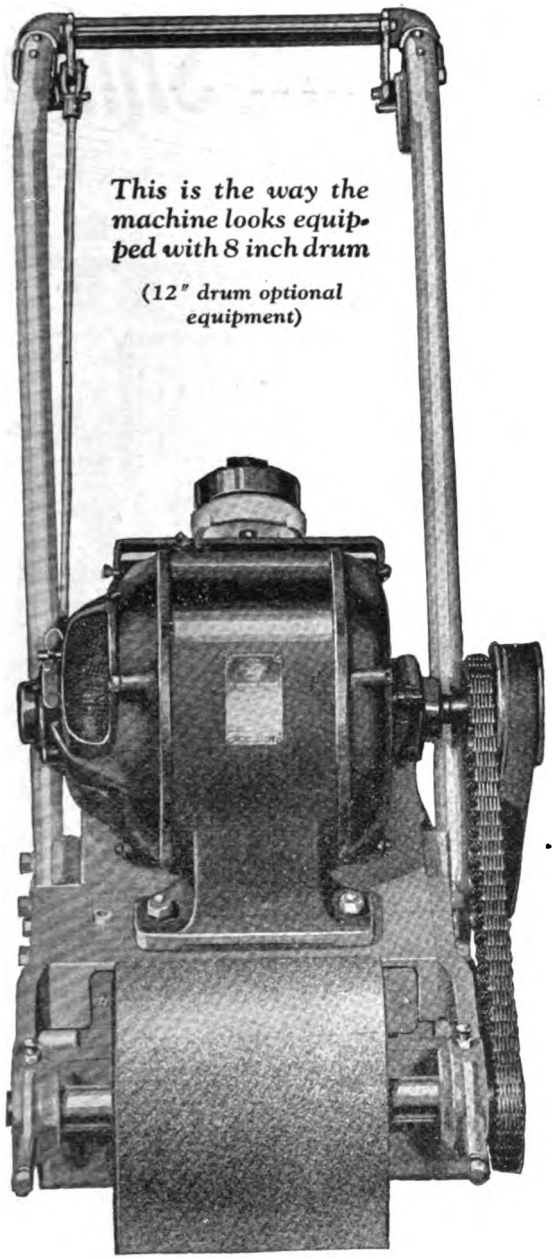








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This is the way the machine looks equipped with 8 inch drum

(12″ drum optional equipment)

A New and Better Floor Sander—

If you are in need of new or additional floor sanding equipment—or if you are thinking of going into the big paying business of floor sanding, you certainly ought to investigate the "Master". For it is the latest sander on the market and possesses many advantages found on no other machines, that will make your work easier and more profitable.

Brief Facts

The Master Floor Sander applies a larger percentage of its weight on the drum, where it is effective, than any other floor sander on the market. Weighs only 230 lbs., yet 150 lbs. of this weight is on the drum when it is in operating position. This is one important reason why the "Master" is the fastest cutting, most easily operated sander on the market today.

No tiresome lifting action is necessary to apply pressure on the drum. Every operator will welcome this absolutely new feature.

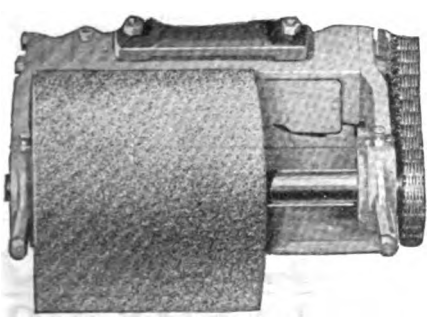
By using 8″ drum you can break all records for quick sanding. The additional pressure per square inch and the fact that the 8″ drum has little or no levelling action, allows it to clean a floor far faster than with a 12″ drum as much less material has to be ground off.

Made by an old established wood working machinery concern.

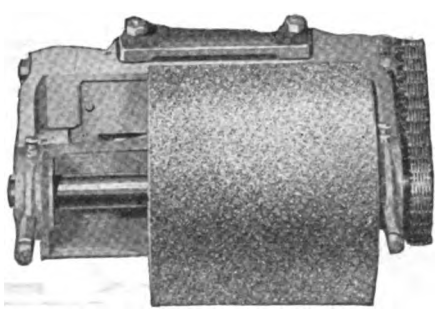
Sold on easy payments. Money cheerfully refunded if 30 days' trial does not prove it entirely to your satisfaction.

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MASTER FLOOR SANDER



Drum moved to right within 1″ of wall



Drum moved to left within 3″ of wall

Master Woodworker Mfg. Co.
612 Brush St.
Dept. A
Detroit, Mich.

Send me your new folder together with offer showing how I can buy a Master Floor Sander on small payments allowing machine to pay for itself.

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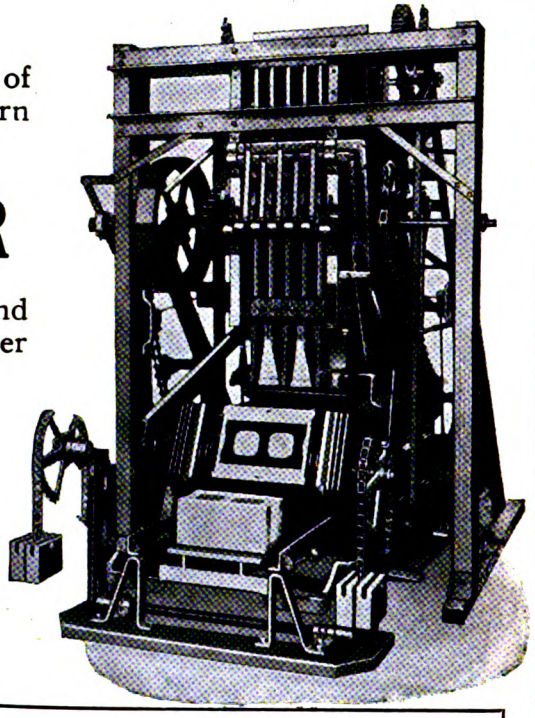
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Make Hay While the Sun Shines

IDEAL
TRADE MARK REG. U.S. PAT. OFF.

Make your big money right now during the heart of the season. Here are the machines that will "turn the trick" for you!



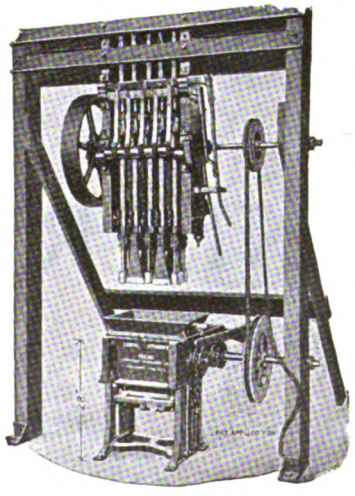
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This is the popular favorite for making Block and Tile. Offers more advantages than any other machine for production of BOTH, in quantities. Tile especially are light, without sacrifice of strength. Both Tile and Block have clean, sharp edges which are in such great demand. Uses cheap wood pallets.

Write us direct or address one of our machinery representatives for complete information about the Power Roll-Over or Vertical Stripper.

IDEAL VERTICAL STRIPPER

Economical in first cost and in operation. Offers decided advantages in low absorption, density and low, convenient, offbearing height.



At no additional cost, you can do power stripping. Pressed steel pallets furnished at same price as cast iron.

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Cleveland, O.....J. G. Hopkins, 3171 W. 111th St.
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For a Single Cottage or For a Group



At Gerrittsen Park, near Brooklyn, N. Y., a new city is nearing completion—the development of Gerrittsen Park, Inc., and Realty Associates. Every wall and ceiling in these more than 800 homes is made of Sheetrock. The illustration is a bird's-eye view from an actual aerial photograph

Whether your contract calls for a single summer cottage or a big home building project it is decidedly to your advantage to use Sheetrock, the fireproof wallboard.

Sheetrock walls and ceilings are erected by the same men who put up the framing. The work is done speedily and economically because Sheetrock comes ready for use. It saws and nails easily and can be decorated immediately.

Being made from gypsum, Sheetrock also assures the owner a wall that will never warp or buckle and that will offer maximum resistance to heat, cold, sound and fire.

Sheetrock is sold by your dealer in lumber or builders' supplies. Write to us today for a sample and free copy of our 48-page Time Book.

Sheetrock is inspected and approved as an effective barrier to fire by the Underwriters' Laboratories, Inc.

UNITED STATES GYPSUM COMPANY

General Offices: Dept. 3, 205 West Monroe Street, Chicago, Illinois

Reg. U. S. Pat. Off.

SHEETROCK

The *FIREPROOF* WALLBOARD

Clip and mail this coupon today!

United States Gypsum Company

General Offices:
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Chicago

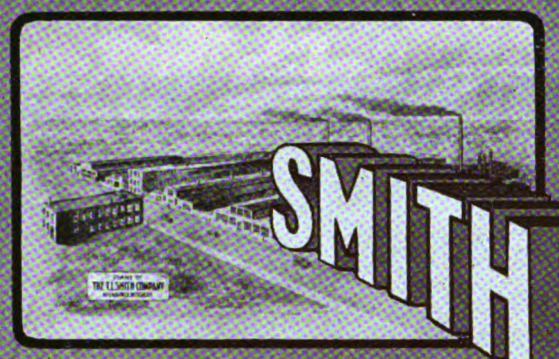
Please send me the Sheetrock sample and the free Time Book.

Name .....

Address .....

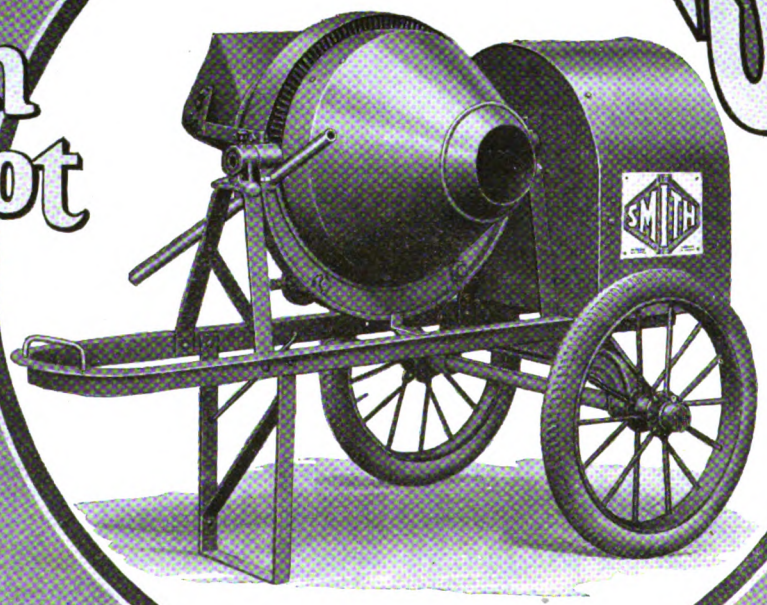
Sheetrock comes in standard sizes: ¼ inch thick, 32 or 48 inches wide and 6 to 10 feet long.

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SMITH MIXERS

The Smith Mascot



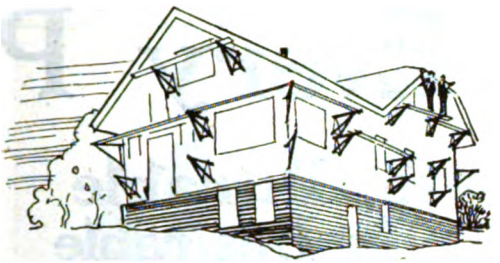
25 TO 45 CU. YDS. PER DAY

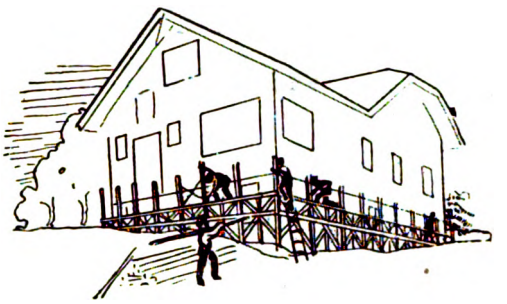
The smallest tilting mixer we make—The Smith Mascot—is designed to give the small job a maximum, speedy production that will result in bigger profits for the contractor. It is low in price, but of the same quality construction for which large Smith Tilters have been famous for a quarter century. It has the same double-cone, fast-mixing tilting drum; is equipped with high speed trailer truck for quick hauling from job to job; and has easy one-hand tilt operable from either side of mixer.

Send for full information about The Smith Mascot and our complete line of Tilting and Non-Tilting Mixers today.

The T. L. SMITH COMPANY
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Sales Offices and Service Stations in all Principal Cities

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Which Way Do YOU Work?

Are you still following the old-fashioned method of using lumber for scaffolding, and wondering why your overhead stays so high?

Thousands of contractors and builders all over the country have got away from this bugbear of heavy overhead with

Trouble Saver Equipment

These users have found that *Trouble Savers* save them time, money and labor in more ways than one.

Two unskilled laborers **can scaffold a house quicker and better with *Trouble Savers* than *ten skilled* workmen do it with lumber. And when *Trouble Savers* are taken down there are no nails to pull, and you have no second-hand or waste lumber to replace.**

Moving from one job to another is a quick, easy matter, for all *Trouble Savers* fold when not in use, so that they are easy to handle and take little room. The saving in storage also is a worth while item.

The continual renewal of scaffold lumber is eliminated, for *Trouble Savers* stay new, job after job, year after year.

Here is what just a few of the thousands of satisfied users say:

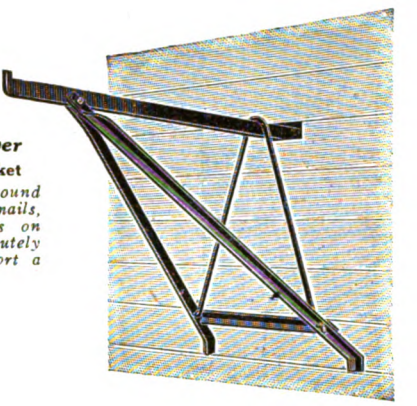
"All that you claim and more." "I would not be without them." "Paid for themselves on the first job." "Your *Trouble Savers* are well named." "The best and safest I have ever used or seen."

And similar letters are coming to us by the score, every day.

For better, faster work you need Trouble Savers too. Call your local supply dealer. If he doesn't handle Trouble Savers, write us direct for all the details on this money saving equipment.

The Steel Scaffolding Co.

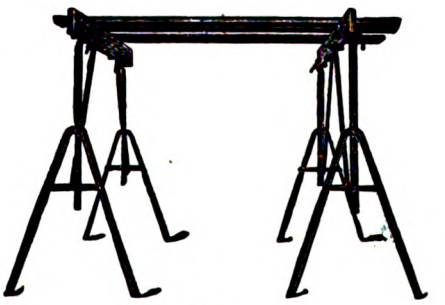
Evansville, Indiana



Trouble Saver
Carpenter Bracket
Simply hooks around the studding—no nails, no bolts. Stands on two legs, absolutely rigid. Will support a ton weight.



Trouble Saver
Stucco Bracket
Attached with only four nails. Stands on two legs without wabbling. Can be taken down instantly.

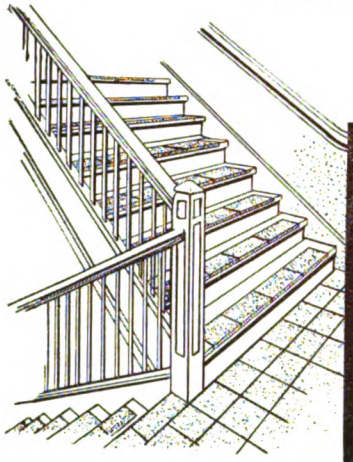


Trouble Saver
Adjustable Steel Trestle
Adjustable in height and length to suit every condition. Come in six sizes that give a total range in height from 16 inches to 10 feet.

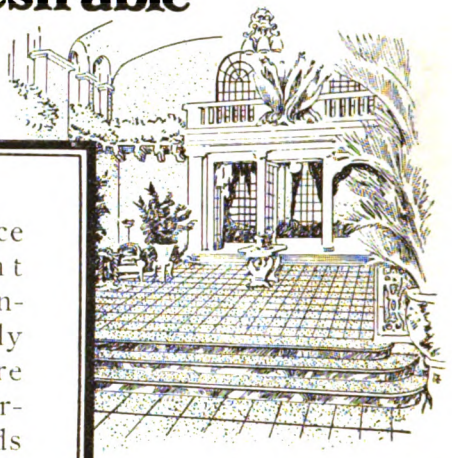
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A Type For Every Place

Where a Safe, Durable Walking Surface is Desirable



Alundum Floor and Stair Tile



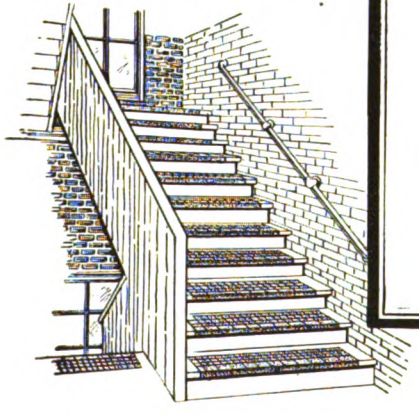
Alundum Aggregate Tile and Treads



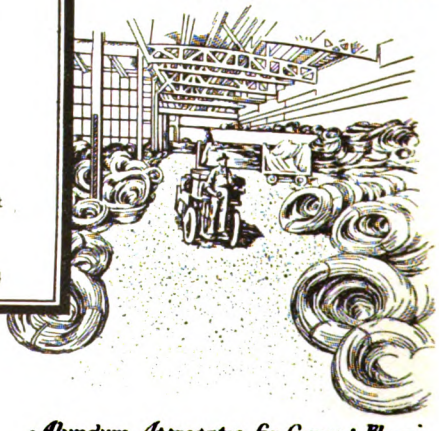
Alundum Ceramic Mosaic Tile



Alundum Aggregates for Terrazzo Floors



Alundum Mosaic Treads (Mat Type)



Alundum Aggregates for Cement Floors

IN the school, the hotel, office building and department store, the railroad station, the industrial plant and practically every other structure there are places where slip-proof and wear-resisting floors and stair treads are desirable. Individual conditions vary, however. The foyer of a luxurious hotel requires a different type of floor from the trucking aisle of an industrial plant. Norton Floors are made in a variety of types to meet the requirements of practically any job. All types are made slip-proof (wet or dry) and unusually resisting by the use of Alundum abrasive—the abrasive used in the well-known Norton Grinding Wheels.

Write for information regarding any or all types of Norton Floors.

NORTON COMPANY
Worcester, Mass.

New York Chicago Detroit
Philadelphia Hamilton, Ont.

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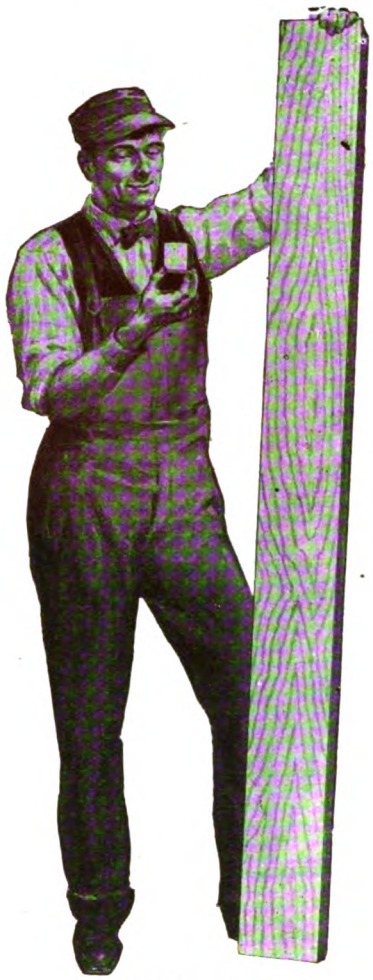
NORTON FLOORS

Alundum Tiles, Treads and Aggregates

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PORTABLE MACHINES

For Either Small or Large Work



SMALL pieces that have always had to be cut with hand tools can now be done in a fraction of the time and with greater accuracy on Wallace Portable Woodworking Machines, without the slightest danger to the operator. Wallace patented guards eliminate any chance of accident.

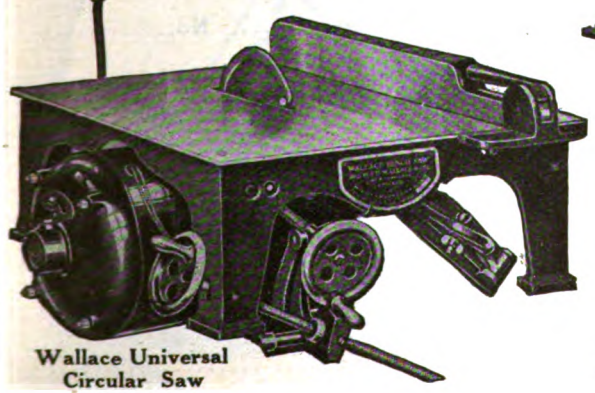
Out on a construction job or in your shop these high speed, efficient, economical tools will prove the greatest money saving investment you have ever made. They are equally efficient on either large or small work, and will handle practically all of your mill work, cabinet work, and interior finish. Gain time and save mill profits with Wallace Portable Machines!

Absolutely Accurate

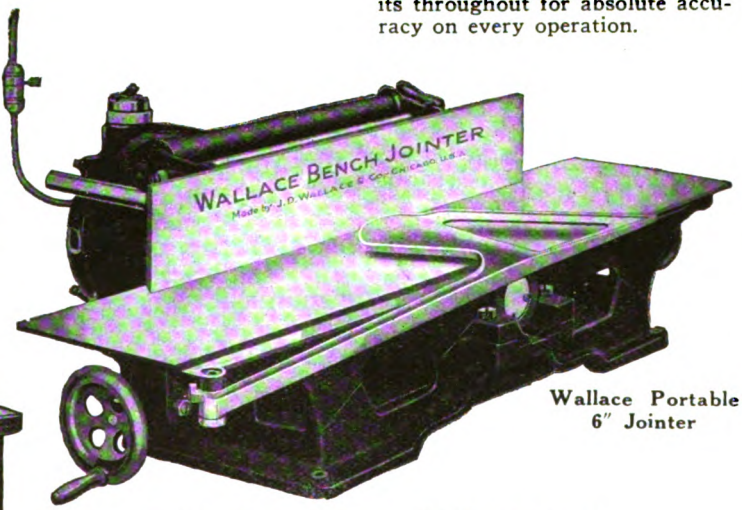
All Wallace Portable Machines are precision-built to closest limits throughout for absolute accuracy on every operation.

Power from Any Light or Power Circuit!

Any electric light socket furnishes power for Wallace Portable Machines. This feature enables you to move them to any part of the job as work progresses. And all Wallace Machines are direct-motor-driven—no belts to slip and dissipate power. Put these machines on your construction jobs and watch the work speed up while the costs go down! Thousands of contractors and carpenters in every part of the country are using them!



Wallace Universal Circular Saw



Wallace Portable 6" Jointer

Wallace Universal Saw — *Wallace 6" Jointer*
Wallace Plain Saw — *Wallace 4" Planer*
Wallace 16" Band Saw — *Wallace 6" Lathe*
Wonder Disc Sander — *Wonder Spindle Sander*
Wallace Glue Pot, automatic heat control

Send today for Catalog 402D and price list!

J. D. Wallace & Co.

150 S. California Ave.
CHICAGO, U. S. A.

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— some detail of a job being figured — usually wanted most when not at hand—can often be acquired quickly by referring to the Selected List of Manufacturers' Literature that appears in every issue of BUILDING AGE and NATIONAL BUILDER. See pages 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168 of this number.

These lists are comprehensive, and the carefully prepared catalogs and booklets of leading manufacturers contain specific information—exactly the sort you may need badly at times.

Consult the list, jot down the numbers wanted on the coupon, and the specified literature will be sent you promptly—free of charge.

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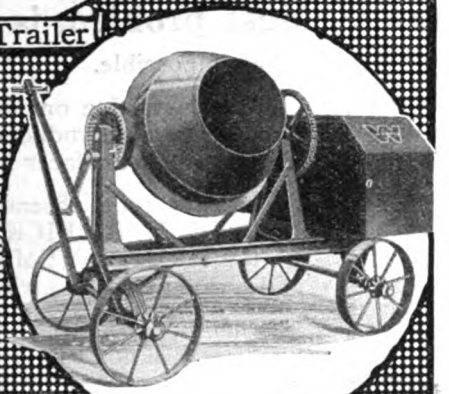
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WONDER MIXERS



WONDER Trailer



WONDER "3½"



WONDER "5"

The 1925 Models Offer

—Improved design throughout
—Increased power plants
—Lower prices

THUS continues the supremacy WONDER has held for fifteen years.

The 1925 models of WONDER mixers prove conclusively that WONDER quality is never sacrificed for price.

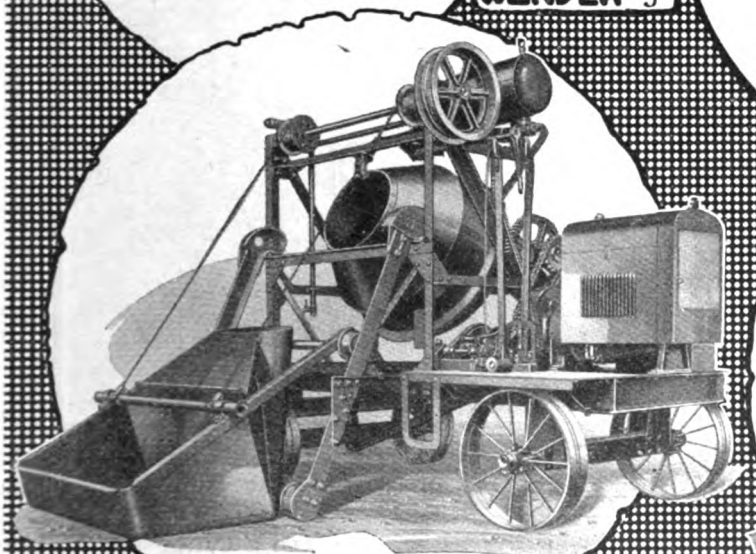
The new WONDER catalog illustrates and describes these new features.

Send for your copy today!

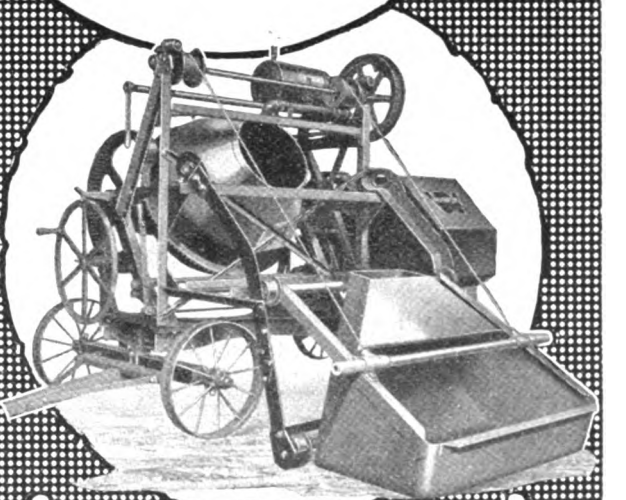
Construction Machinery Company

General Offices and Factory
WATERLOO, IOWA

Factory Branch Offices
LOS ANGELES INDIANAPOLIS
PHILADELPHIA



WONDER "14" with Track Loader



WONDER "7" with Track Loader

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Floor Surfacing Made DUSTLESS

Anyone who has had any practical experience in the surfacing and refinishing of floors will readily agree that with the right kind of a machine it offers very exceptional profit making possibilities.

However, it has always been a serious drawback that the machines used for that work were very inefficient in picking up the dust. With the

FREE-O-DUST Super Surfacer the dust problem is solved

and we have accomplished what has been heretofore regarded as impossible.



The illustration on the top at the left is a photographic reproduction of the FREE-O-DUST Super Surfacer in operation.

Note the total absence of dust! EVERY PARTICLE IS PICKED UP ON THE FORWARD MOVEMENT of the machine and automatically carried into the dust bag.

When operating the FREE-O-DUST Super Surfacer you don't have to inhale the poisonous substances that often accumulate in wood flooring and as the wheels do not have to travel over an accumulation of dust, a uniform and mechanically perfect finish of the floor is assured.



Look at the lower illustration on the right, which shows the actual condition when other floor surfacing machines are used. The accumulation of dust can be removed only by pulling the machine backwards over the part of the floor that has been surfaced and then only partially so. This means loss of time and an imperfect finish.

Among other exclusive features of the FREE-O-DUST Super Surfacer are that the machine can be operated right up to the baseboard. No side drum is necessary. The pressure on the drum is automatic and the drum can be locked to any pressure desired.

Write for free copy of our booklet "A Day's Work," which gives valuable and accurate information about floor surfacing and our unconditional five days' free trial offer of the FREE-O-DUST Super Surfacer.

ELECTRIC ROTARY MACHINE CO.

3833 W. Lake St., Chicago, U. S. A.

MANUFACTURERS OF FLOOR SURFACING MACHINES FOR TWENTY YEARS

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$1 $1 PER MONTH FULL SET $6



Inside trade information for Carpenters, Builders, Joiners, Building Mechanics and all woodworkers. 3700 actual examples of efficient construction work with new methods, ideas, solutions, plans, systems, short cuts, time and labor saving suggestions, new ways that cover the entire theory and practice of the subject illustrated by sketches and forms, all specific and practical. Audel's Guides give you the short cut, professional information you want. No need to guess or take chances.

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Over 448 pages—400 Illustrations

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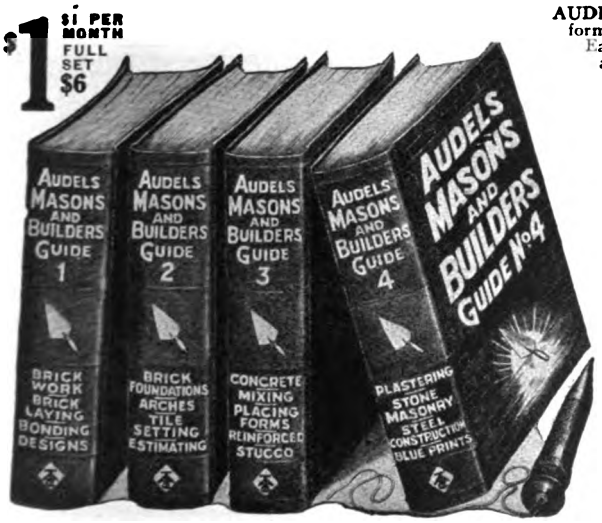
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(A) Plant of Duntile Co., Ltd., Montreal, and part of their second season's stock.

~take MONTREAL for instance~

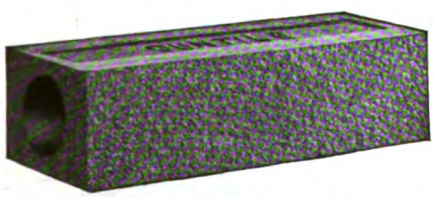
It furnishes an accurate view of the great opportunity open to YOU as a manufacturer of

DUNTILE

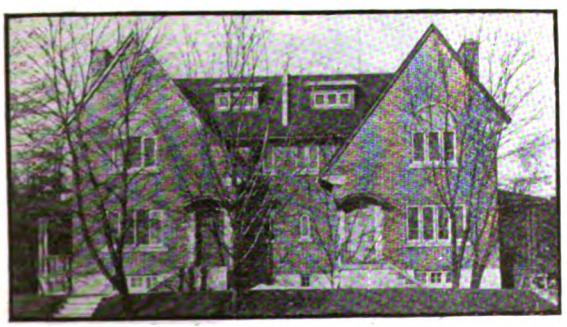
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(B) The contractors who built and own this 500-car garage chose DUNTILE for its construction because of excellent results obtained on other work



(C) DUNTILE combines light weight, great strength, unusual insulating and fire-proof qualities. All standard sizes made by same equipment.



(D) As backing for brick and for partitions DUNTILE is unequalled. Super-insulation makes it possible to plaster direct—a great economy.

ARE you open to a proposition that will give you an independent manufacturing business of your own—a business that hundreds of others have proved sound, conservative, and highly profitable? If so you are sure to be deeply interested in the achievements of the DUNTILE manufacturer in Montreal.

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Two years ago DUNTILE was practically unheard-of in this Canadian Metropolis. Then Mr. R. B. Williamson investigated its possibilities and built a plant for its manufacture. Within a year from the time his first tile was turned out DUNTILE had become one of the strongest factors in this great city's building industry. During that initial year alone *DUNTILE won the enthusiastic support of 65 leading contractors and architects.*

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The great need in building today is for *economical* permanent construction. DUNTILE produces the very finest structures at the cost of frame or 30% less than brick. Even more important, it is perfectly suited to the *complete* construction of *every* type of building.

250 Successes Your Guide



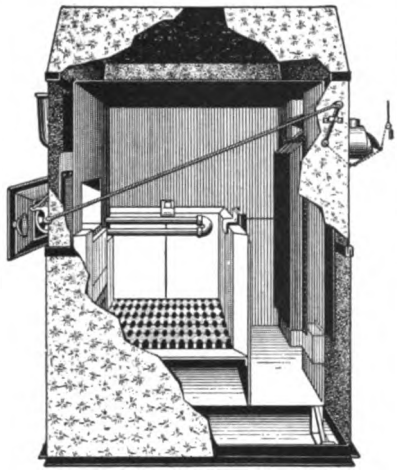
If you would like the actual facts and figures proving how average ability and some capital wins manufacturing independence for those supplying DUNTILE in each community, send for our FREE book, "Basic Facts." But do it **now**; tomorrow someone else may have taken advantage of the opportunity that today is yours.

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The same rectangular type fire box used in locomotives and power plants is used in Hess Furnace. A live fire can be kept under the entire area— no dead pockets. Straight walls maintain even depth of fire. Individual grate bars, operated separately, liven up any section without disturbing the rest. All these factors are absolutely essential to efficient firing and fuel economy— which is impossible with any type of circular fire-box.

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Fire Brick withstands the melting or cracking influences of high temperatures, and conserves these temperatures, so essential to perfect combustion. You get the full heating value of your fuel. You are also saved the enormous expense of tearing down your furnace and pipes to replace a cast iron fire pot or to re-cement cracks.

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Special Rates **are offered contractors, together with free plans for installations. Any handy man can install a Hess and many contractors are making profits on this extra business.**

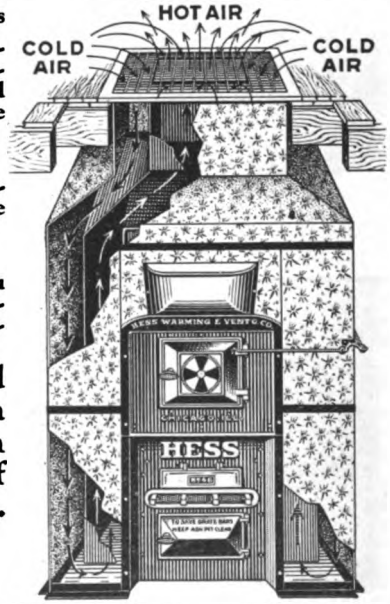
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Send us a sketch, and from our free heating plans, showing all details, you can install it yourself. Owners can obtain a Hess Furnace on time payments— pay as you use it. Our guarantee of satisfaction or money refunded is your assurance of a comfortable, well-heated home.

"*Modern Furnace Heating*" is a 48 page illustrated handbook on heating systems. It also contains a complete description of the many features which make Hess Furnaces so successful that 75 per cent of them are sold through the recommendations of users.

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Branch Offices: **Brooklyn, N. Y; Detroit; Cincinnati; Milwaukee; Minneapolis.**



Hess Pipeless Furnace; warms the whole house with one register. Made in four sizes.

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HORACE W. CASTOR
ARCHITECT
1004-10 STEPHEN GIRARD BUILDING
PHILADELPHIA

Jan. 21st, 1925

Standard Textile Products Co.,
320 Broadway,
New York, N.Y.

Gentlemen:-

The Sanitas used on the walls and ceilings of the Louis H. Eisenlohr Memorial Home for Nurses, at the Methodist Episcopal Hospital, Broad and Wolf Streets, Philadelphia, has been quite satisfactory.

The problem which confronted us when the building was completed and ready for furnishings, draperies, etc., was the kind of covering for the walls. At first it was decided to go ahead with the furnishings and let the nurses enjoy the building, and leave the walls in the white coat until they had properly dried out and then paint.

Mr. Charles J. Eisenlohr was quite anxious that the nurses should enjoy the full comforts and beauty of the building, and wanted the unfinished walls to be finished. Sanitas was decided upon as being the proper wall covering to give the desired results.

Yours very truly,
Yours very truly,
Horace W. Castor
Architect.

SANITAS
MODERN WALL COVERING

Can be hung just as soon as the plaster is dry

TO put the furnishings in place and hang the draperies, against plain white walls, always is a miserable sort of decoration.

To move those furnishings and take down the drapes, some time later, in order to complete the wall treatment, is a soul-revolting discord.

Mr. Horace W. Castor's experience with the Eisenlohr Home for Nurses and the Methodist Episcopal Hospital, in Philadelphia, proves that Sanitas can be hung as soon as the plaster is dry. See his letter reproduced at the left.

And when Sanitas is so hung, the walls have a firm, strong support that prevents many cracks from ever starting, restrains others, and because Sanitas is impervious to air and moisture, the crazing that these elements usually cause on plaster is forestalled.

Sanitas is an investment, not an expense. It is made on cloth, heavily coated with durable oil colors; does not crack, tear, peel, blister, or fade; can be applied on any flat surface, and is easily wiped clean with a damp cloth.

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Enamel Finishes plain colors, tile and decorative patterns, for kitchens, bathrooms, etc.

Our Architects' Service Bureau is able to furnish many valuable suggestions, and will be glad to send samples, literature and source of supply, on request.

THE STANDARD TEXTILE PRODUCTS CO.

320 BROADWAY, NEW YORK
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Pacific Coast Office—810 Santa Fe Avenue, Los Angeles, Cal.

When in Atlantic City visit our permanent display at Central Pier, 1410 Boardwalk.



ARCHITECTS' SERVICE BUREAU
The Standard Textile Products Co.

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DATE

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[ ] What They Say About Sanitas Modern Wall Covering
[ ] Hints to Decorators
[ ] Sanitas Modern Wall Covering and Its Uses
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One Examination Will Convince You



To any progressive builder the time and money saving advantages of using DEXTER Tubular Latches are apparent almost at a glance. Ask your hardware dealer to show them to you.

Ten to one they are exactly what you have long been looking for—a latch that can be set in and yet does not require mortising or gouging. You realize that mortising is mighty costly—slow work requiring high priced labor. You appreciate as well that a latch fastened to the outside of the door is unsightly. When you discover then, that DEXTER LATCHES not only eliminate these objections to all other latches, but also set a new standard of beauty, quality of materials and sound construction, it's easy to guess what your opinion of them will be.

Very likely you will decide right then and there to use them on your next job. And once you actually install them you are sure to be a steady user.

Study the illustration—note that these latches can be installed by simply boring two holes—that they consist of only three substantial working parts, are positive in action and practically indestructible.

Then take the first step toward saving time and money with Dexter Latches by examining them at your dealers; start profiting at once.

NATIONAL BRASS COMPANY

1603-1611 Madison Ave., S. E.
GRAND RAPIDS, MICHIGAN

By all means insist that your hardware dealer shows you Dexter Locks and Latches. If he hasn't them in stock, write us. Complete descriptive literature on request.

DEXTER
TUBULAR LATCHES

for French Doors and Screen Doors

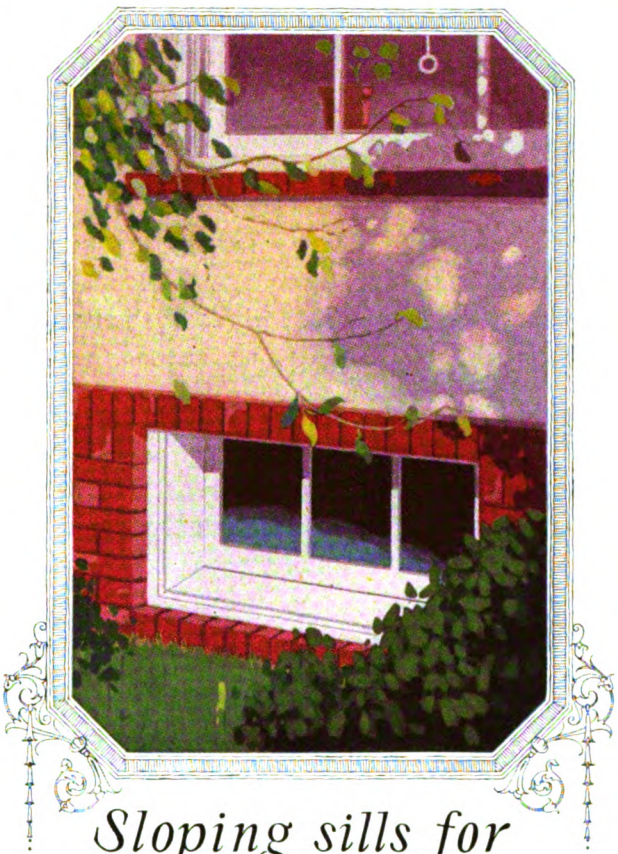
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Any dealer can give just as prompt deliveries on Andersen Cellar Sash Frames as he can on Andersen Window or Door Frames.

Write for latest information on Andersen Standard Frames, stating whether you are an architect, builder, dealer or prospective home owner.

WHITE PINE Andersen FRAMES

Look for this trade-mark—it appears on every Andersen Frame.



Sloping sills for cellar frames

There's no reason why cellar sash frames shouldn't have sloped sills just like window frames. This feature costs no more, and is valuable in keeping water out of the building.

All Andersen Cellar Sash Frames are made with sloped sills. All exposed portions are of genuine White Pine, hence will not warp, shrink, rot or crack.

Andersen Lumber Company
Bayport, Minn.

Andersen
FRAMES

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For several years a client of ours found it impossible to get any amount of business out of a certain state on the edge of his sales territory.

The best trained salesmen couldn't make a dent on it.

Soon after he commenced national advertising in color, sales in this state picked up. In one case a salesman got a big order as a direct result of an inquiry from a man he had never seen before, in an organization he had been calling on for years.

Dominating color advertising picked the right man and introduced the salesman in a way which made taking the order an easy matter.

It is a great help to a salesman to be properly introduced.

What better assurance that your salesmen will receive the respect and consideration they deserve than to know that each month the leading two hundred thousand architects, contractors and dealers are receiving such an introduction?

MAC MARTIN ADVERTISING AGENCY

Security Building, Minneapolis

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Nelson
MASTER·SLAB·ROOFS

EVERYONE admires the beauty of a Nelson Master Slab Roof—the harmonious charm of its closely blended colors, the play of light and shadow over its rugged, double butted surface.

But only those who examine it closely can fully appreciate its soundness of construction, the safety and long service that lies in its expertly processed material.

May we send you "Quality Roofs?"

The B. F. Nelson Manufacturing Co.
Minneapolis, Minn.



Notice the beautiful lines of a Nelson Master Slab Roof. The colors become softer and more harmonious with the changing seasons. Write for free samples of the six basic colors, moss green, autumn brown, Spanish red, velvet black, purple or maroon.

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Here They Come

HERE they come! The ice is out at last. Spring is here. The drive is on. ¶ To the lumberjack who has toiled all winter in the cold north woods this means more days and nights of action. He must now guide the giants of the forest on their long journey to the mill, there to be cut into boards to fill your needs for pine of Shevlin quality.

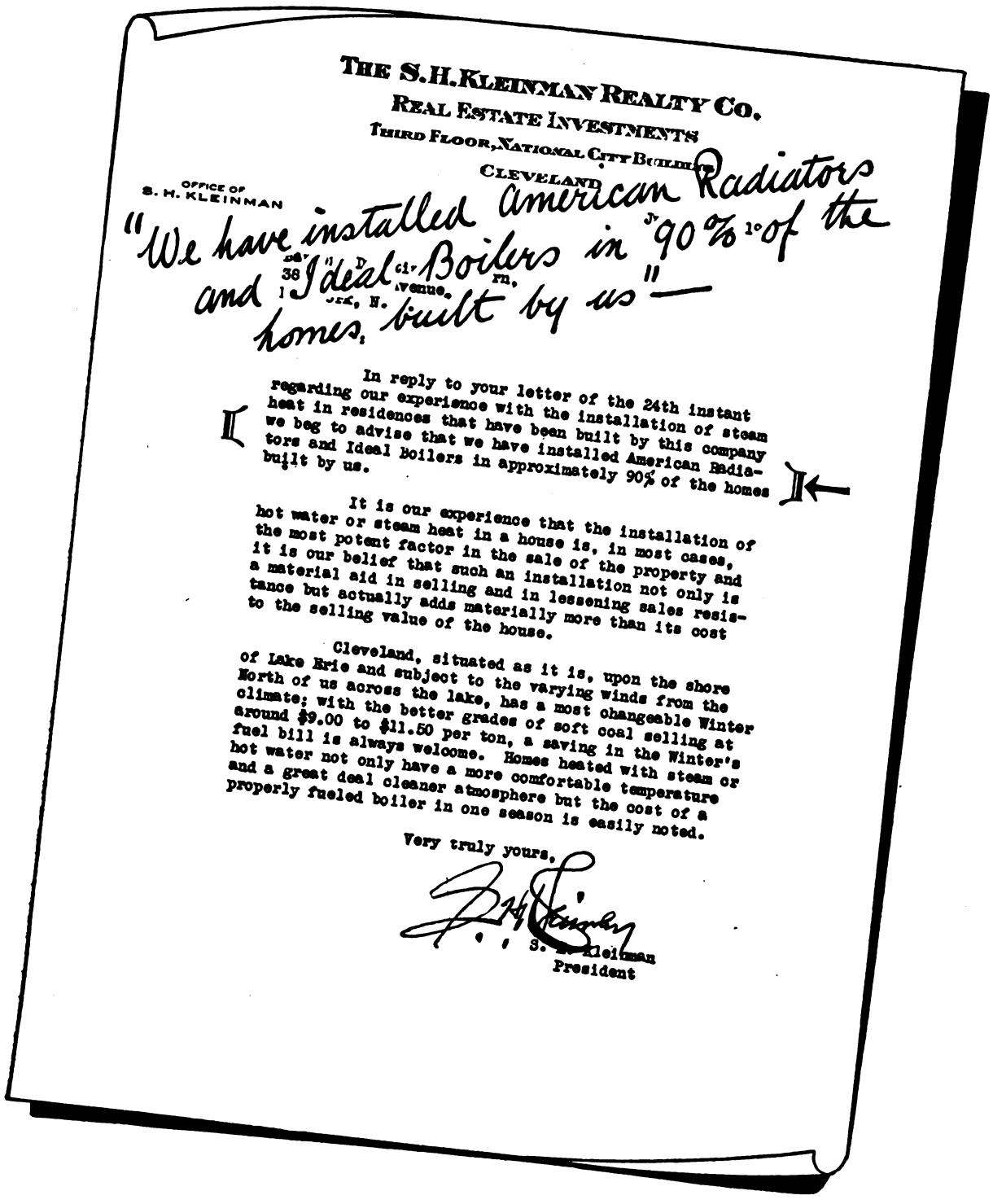
Shevlin, Carpenter & Clarke Company

900 First National-Soo Line Bldg., Minneapolis, Minn.

SHEVLIN

LOG MARK REGISTERED

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THE S. H. KLEINMAN REALTY CO.
REAL ESTATE INVESTMENTS
THIRD FLOOR, NATIONAL CITY BUILDING
CLEVELAND

OFFICE OF
S. H. KLEINMAN

"We have installed American Radiators and Ideal Boilers in 90% of the homes built by us"

In reply to your letter of the 24th instant regarding our experience with the installation of steam heat in residences that have been built by this company we beg to advise that we have installed American Radiators and Ideal Boilers in approximately 90% of the homes built by us.

It is our experience that the installation of hot water or steam heat in a house is, in most cases, the most potent factor in the sale of the property and it is our belief that such an installation not only is a material aid in selling and in lessening sales resistance but actually adds materially more than its cost to the selling value of the house.

Cleveland, situated as it is, upon the shore of Lake Erie and subject to the varying winds from the North of us across the lake, has a most changeable Winter climate; with the better grades of soft coal selling at around $9.00 to $11.50 per ton, a saving in the Winter's fuel bill is always welcome. Homes heated with steam or hot water not only have a more comfortable temperature and a great deal cleaner atmosphere but the cost of a properly fueled boiler in one season is easily noted.

Very truly yours,

S. H. Kleinman
President

Hundreds of prominent realtors and builders, like Mr. Kleinman, have proved to themselves that homes with IDEAL BOILERS and American Radiators rent for more and sell for more.

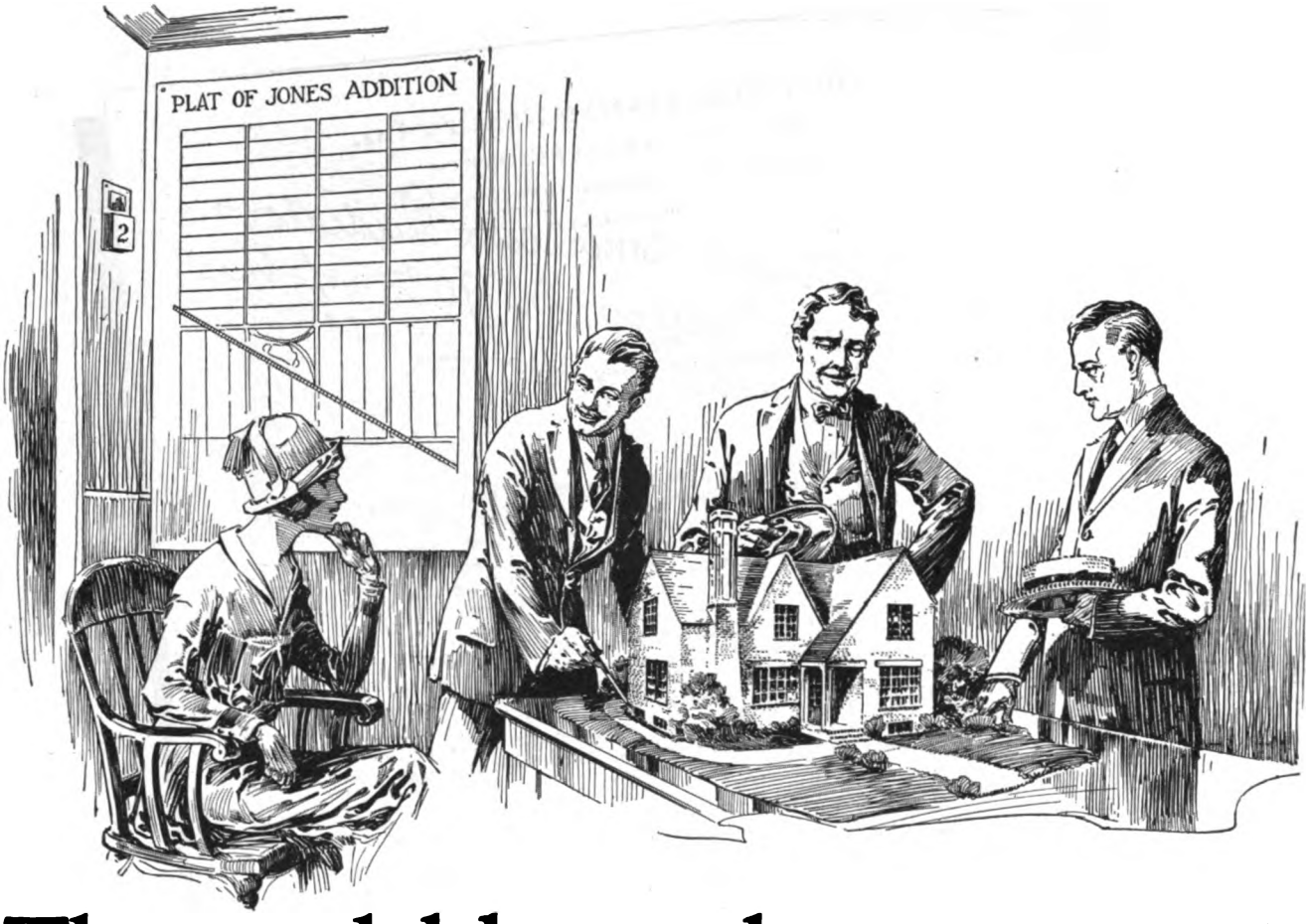
AMERICAN RADIATOR COMPANY

Dept. T-100 1807 Elmwood Avenue, Buffalo, N.Y. *Sales Offices in all principal cities*

IDEAL BOILERS AND AMERICAN RADIATORS FOR EVERY HEATING NEED



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The model house has steel windows throughout



Lupton Basement Window
Made in three standard sizes—fit almost any basement condition and make a permanent, economical job in the wall



Lupton Steel Casement
Lupton Steel Casements add great value to any house, at practically no additional cost

STEEL WINDOWS are a powerful sales argument for the contractor, as well as the real estate operator. They convince the prospective buyer that the home will be enduring as well as distinguished, that it will be sunny, airy—yet storm-proof and that the basement too, will be fresh, light and dry—suitable for laundry, storeroom, or additional living quarters.

Experience has proved that the steel window house sells more readily. Use Lupton Steel Windows in all your houses. They are easy to buy, easy to install, and a real help in making your sales. Write for your new catalogue, C-122.

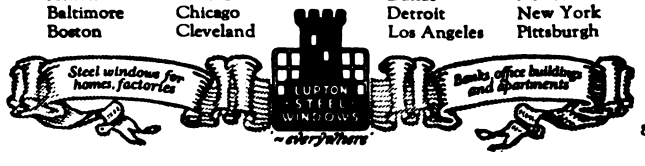
Building Notes

Our new catalogue 12A, of Lupton Pivoted Sash is just off the press. It contains clear selling information on this widely used product. Write for your copy—free. Act promptly, while the edition lasts.

DAVID LUPTON'S SONS COMPANY

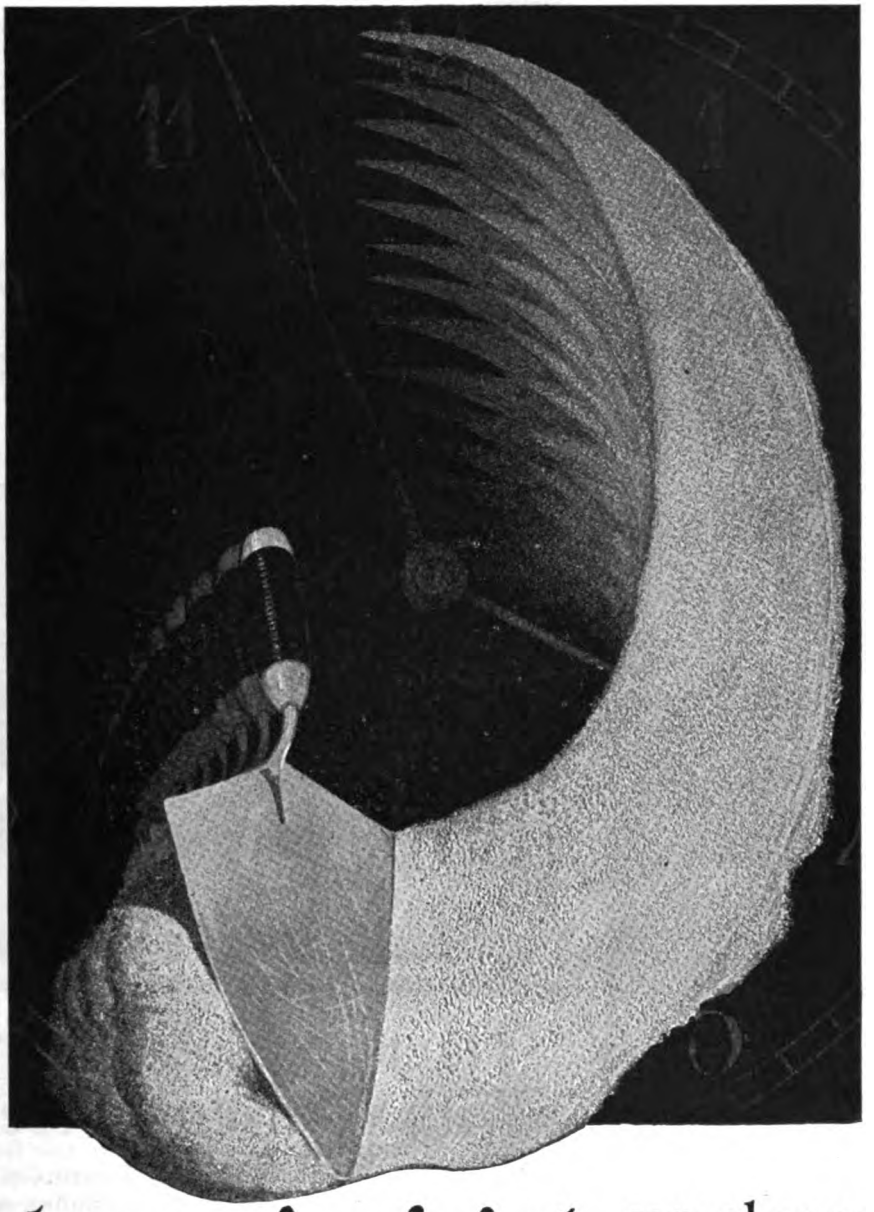
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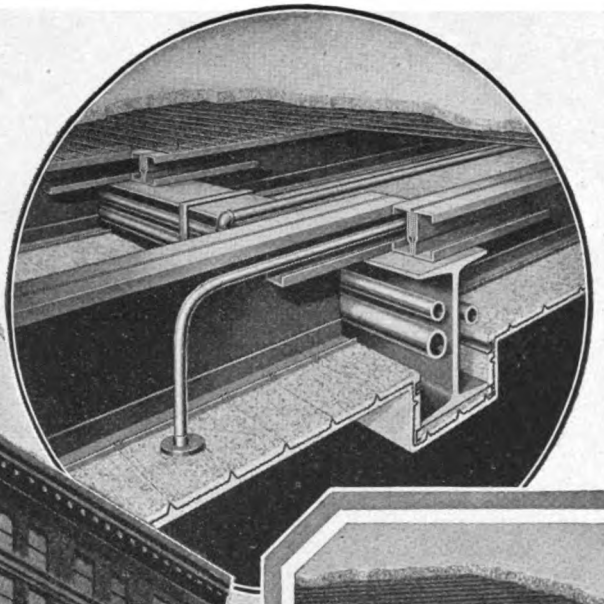
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BRIXMENT is made according to a definite, invariable formula that insures a wall of maximum and uniform strength at greater economy of time, labor and material. No lime. No slaking. BRIXMENT is sold through dealers. If there is no BRIXMENT dealer in your town, write to us direct. *Louisville Cement Company, Incorporated, Louisville, Kentucky.*

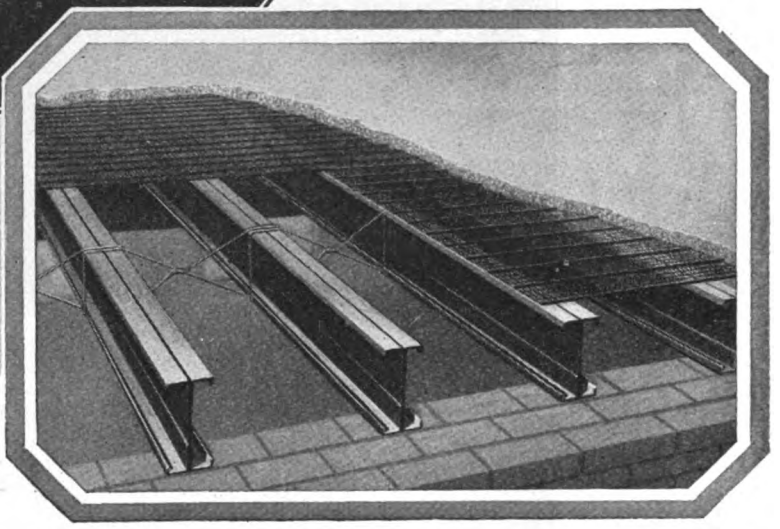
for Better Masonry

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TRUSCON Steel Joist construction allows ample room for placing of pipes, conduits, etc., and the Joists possess a solid web that makes for great rigidity. Light weight allows a saving in the secondary members of the construction.





Thousands of Dollars Saved With Truscon Steel Joists

The Metropolitan Building, Toronto, Canada, is the tallest building in the British Empire, also the tallest building in the world using steel joist construction throughout. Its construction has a lesson for builders. The building was completed four months ahead of time, amounting on approximate rental value of its floor area, to a saving of $40,000.00. Truscon Steel Joists offer rapid, economical construction for light-occupancy buildings.

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Truscon specialists in Steel Joist construction will confer with you on economical structural design. There is no obligation whatever on your part.

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Building Age and National Builder
With Which is Incorporated
The Permanent Builder and The Builders' Journal
New York, July, 1925

May Construction Sets a New Record

THIS seems to be the age for shattering records and no industry has done more in this line than building. Many have predicted that the record for the large volume and cost of construction in 1924 would not again be equaled and when there was a little drop at the beginning of this year the "I told you so's" could be heard very plainly but since then contracts awarded have steadily mounted.

Figures just completed show the largest April on record and now comes May shattering all existing records for volume of construction ever handled in a single month in the Unitd States! And in cost slightly less than April but an increase of 18% over May 1924.

This is certainly something to be proud of and better yet to know that the building industry, despite all this prosperity is keeping its head. There has been no real rise in building costs, either materials or labor—no cornering materials and no snowballing by labor and we no longer see the bonus advertised as a bait to attract mechanics.

The building industry as a whole seems settled on a solid dignified basis. When we see the depression in some lines we ought to be truly thankful that we are engaged in building.

Unless some unforetold disaster happens, 1925 volume of building construction bids fair to beat that of the banner year 1924.

THE movement for a five-day week is, curiously enough, not finding favor with the workmen. One big reason why it is being advocated is that it could provide employment for more men, giving the man who is out of work a chance. The idea is certainly sound from a philanthropic standpoint, but just now in most sections we are struggling with the problem of more jobs than men. Therefore the big point in the five week movement is virtually nullified in the building trades, especially as it has had the condemnation of different powerful organizations.

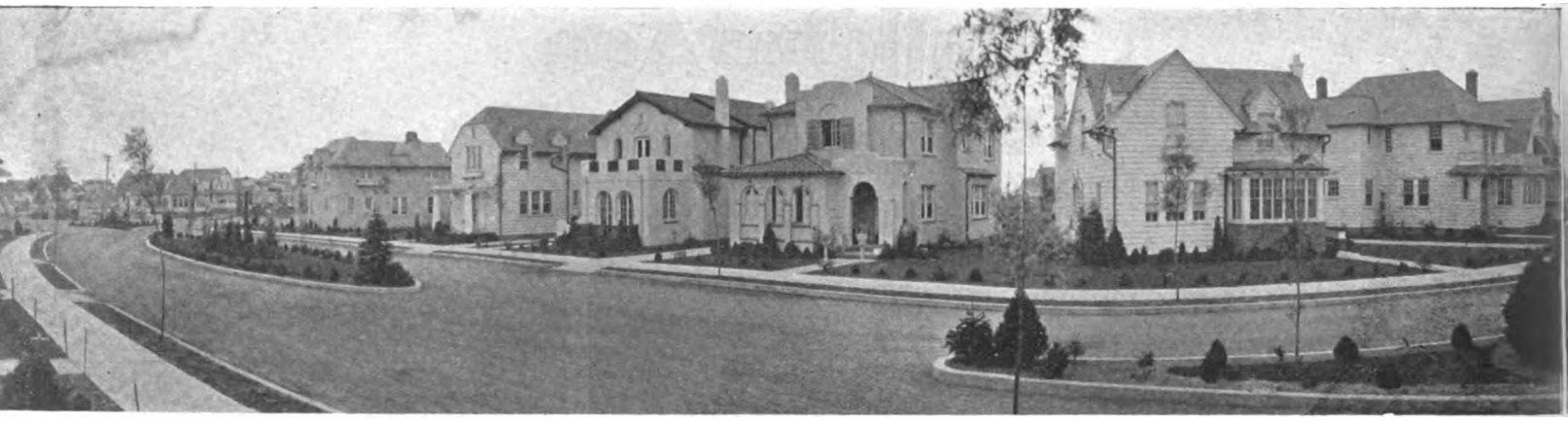
IT is hard for us, or for that matter, any editor, to secure 100% reader interest. To cover every subject that every reader would like to see discussed would take a great many pages. We can only give in our comparatively limited number of pages the kind of information that will be of most service to most readers. Each reader, however, has his own individual problems to meet and we wish to assure our readers that we will be glad to give them any particular information at our command. Our best efforts are yours for the asking.

THE wide-awake builder will recognize that one of the greatest sales helps is a little landscaping around the new house. Good effects can be obtained at a surprisingly low cost. No enterprising builder needs to be told that an appropriate ground setting pleases the prospective buyer.

FROM time to time we read about the appalling fire loss in the United States. It amounts to $4.00 per capita and forms of course a tremendous total. There is a good deal of propaganda in favor of building only fire safe structures. That will help a whole lot, but the trouble goes deeper. Some folks could live in absolute safety in a house made of gasoline soaked paper; others could not exist in a fireproof vault without causing a fire in either clothing or papers. The great problem is to educate the careless individual to be careful. The fault is not entirely due to certain kinds of combustible building materials which are entirely satisfactory otherwise.

REGARDING the campaign for "The Best Selling Homes in America" we are going to make a very interesting announcement in the August issue. In the meantime send in your contribution—a photo and plan of your best seller—it may be one of the prize winners!

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From SAND DUNES

The Building of Marven Gardens at Atlantic City, New Jersey

Frank H. Pedrick & Son, Owners and Builders
Donald Rosenstein, Architect

FROM a stretch of sand dunes along the Atlantic Coast to a city known throughout our country as the play ground of America is, briefly, the history of Atlantic City, N. J.

Fifty years ago this now famous play ground was a wild section of our coast but its founders had visions, so today there stands a marvelous city, not a nondescript variety of buildings but boasting some of the world's best in architecture.

Those who have not visited this entrancing City by the Sea are apt to picture it as being comprised of the famous boardwalk, huge hotels and amusement places, steel piers, etc. In addition to this, however (and this was the real beginning of the city), there still continues a thriving fishing industry on the bayside and toward the south end a constantly growing community of very fine homes.

While Atlantic City is a play ground town attracting yearly about 5,000,000 visitors, it also has a large permanent population. The houses are not the ordinary summer bungalow type as many handsome residences have been built in years past; these are well built and beautifully landscaped despite the fact that all top soil must be brought from the mainland—Atlantic City is situated on an island.

People who go to Atlantic City for a few days or to stay a few months or even to live there have the holiday spirit which is reflected in beauty of design and gay colors used for their homes.



In all this beauty there stands out preeminently a home development which is so different that it instantly commands attention. As it stands today it is still in an incomplete condition but those portions erected and developed show up the unusual architectural designs and landscape features enough to stamp it as a most unique as well as one of the most artistic developments in this country.

THERE have been many beautiful developments all more or less following one particular type of architecture. However, in Marven Gardens different types of architecture have been successfully combined to make an artistic ensemble.

Each house is in perfect taste and of correct architectural design, and while of different architecture each adds to the beauty of its neighbors.

We find a Dutch Colonial nestling alongside a Spanish design and then comes an English cottage type neighboring a villa that seems planted here from fair Italy itself.

This marvelous development of Marven Gardens is located in the Margate section of Atlantic City. The different views shown on these pages give but a faint idea of the beauty of buildings in this development, as one of its principal charms



THE entrances of the homes of the Marven Gardens are all distinctive in design but every one has that charming inviting appearance that really says "Welcome" to the visitor.

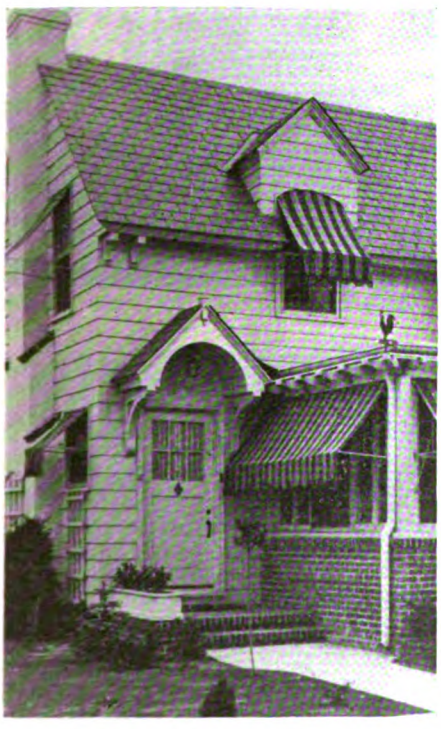
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To A MAGIC CITY

Homes of Wood, Brick and Stucco Cleverly Grouped for Effect

How They Were Designed and Constructed
Described by Charles G. Peker



TWO charming entrances are shown in this and the picture on the opposite page. Note that the doors in each case are different, each house has its own individual touch.

is the lavish use of color on the exteriors.

Just imagine a stucco house of battleship grey with a tile roof of ultra-marine blue having blue and orange wide striped awnings! Then again, an orange colored stucco house of Spanish design with awnings in striped black and orange, the trim of the house being in black! Various colors are daringly but cleverly used and all forms of architecture seem happily combined in this extraordinary "Village by the Sea."

IT is not only in color but in various materials that originality is obtained. Clapboards, brick, shingle stucco, etc., all help to produce the charming whole.

Our pictures disclose a marvelously well developed piece of property which forms a striking example of what modern builders can perform in a short space of time.

About 18 months ago this beautiful village was nothing but a wild tract of sand dunes with a few Bayberry plants and wild grass. In this short space of time these buildings were erected, water, sewer pipes and electric conduits laid, streets asphalted, concrete side walks and curbs laid, also run-ways to garages, with which every house is provided.

Here is a development that was built especially to please people of more than moderate means who can afford a substantial summer residence, one that can be used all year round for those who desire to stay permanently.

All electrical wiring is under ground. The poles that show here and there through our pictures are temporary lines used during construction.

JUST fancy driving through this remarkable development over wide smooth streets, passing beautiful park spaces with fountains playing among beautiful evergreens! and at this the sea side. It is certainly an ideal village in itself.

The development required careful conscientious planning with a proper study of architectural styles. A thorough knowledge of unusual building construction was necessary; as the site itself was unusual allowing of only shallow foundations.

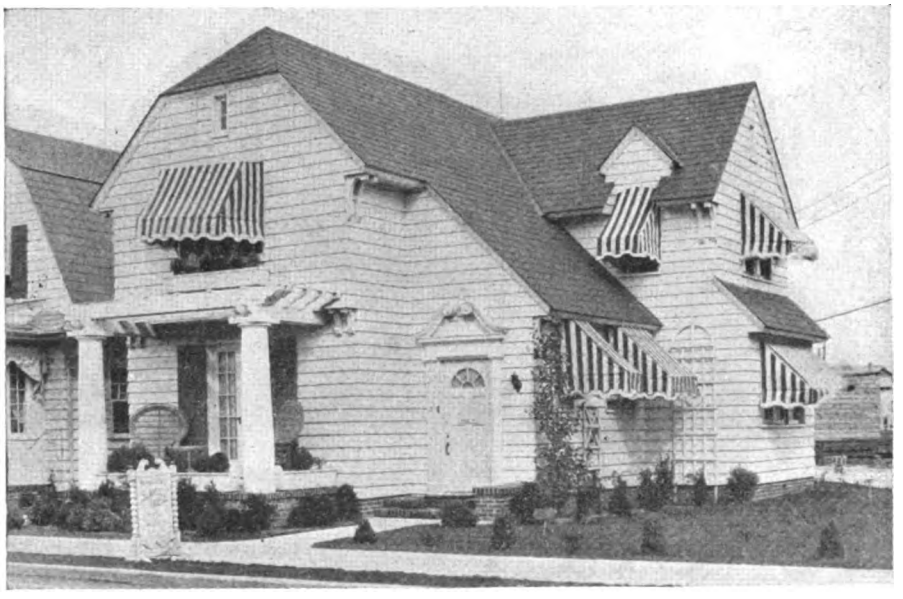
In the development of Marven Gardens a plot of land comprising a space of eight city blocks was laid out on an entirely new plan, divided so as to secure large plots of land, many of them rather irregular. Because of this, charming vistas are made possible from almost any point. The entire development of the plot and the construction of various buildings (which will total 115) cost upwards of $2,000,000,—an enterprise of some magnitude.



Not every house is different, many are built from the same plans. The repeats, however, are on different streets and various points.

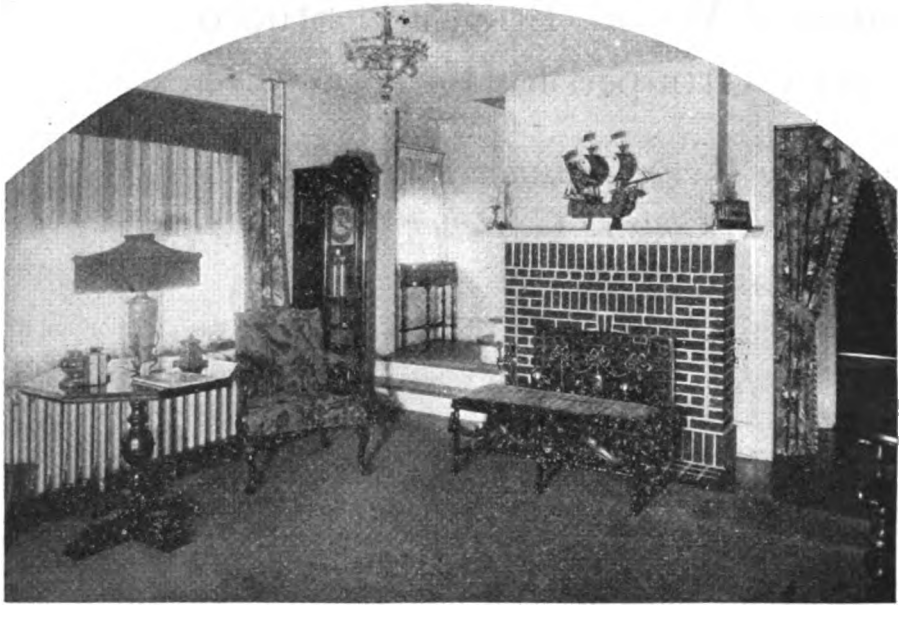
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The Sample House



HERE was indeed an interesting display for intending purchasers to view. A pleasing appearing home of immaculate white clap boards greeted the eye of the prospective owner. Gay red and white awnings added to the colorful effect vying with the brick work in foundation and steps.

TO show the sample house at its best the various rooms were artistically furnished. Here are views of living room, kitchen, laundry, one bedroom and bath.

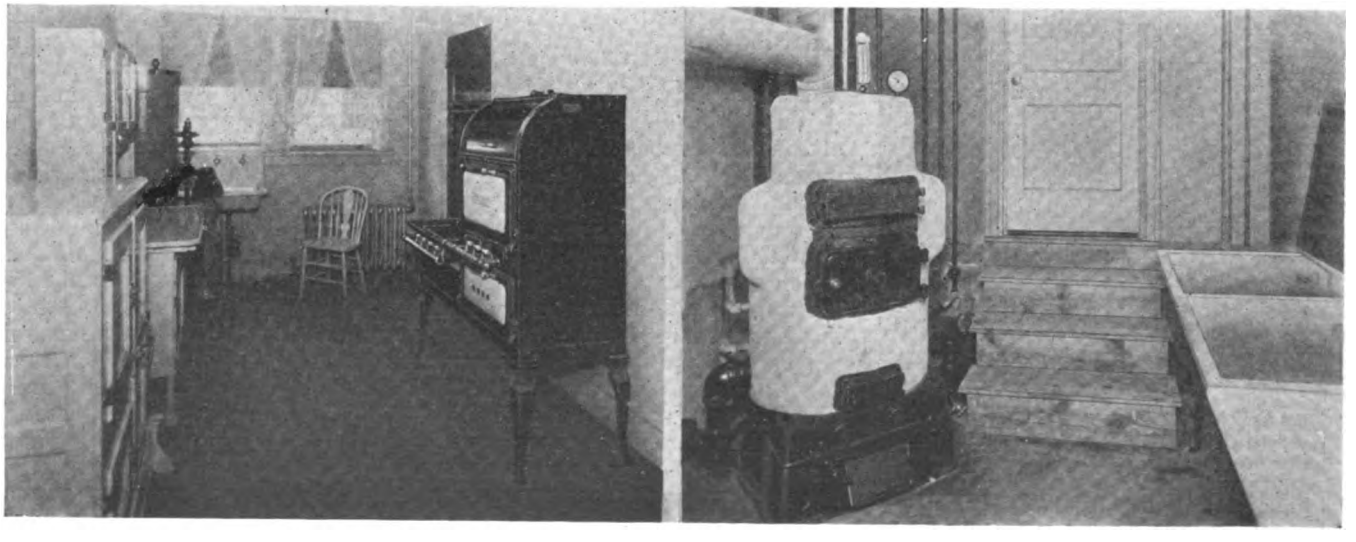


This method of working from standard designs means economy in erection for all mill work, etc., is similar. The houses were placed, however, so that no sameness is visible and the coloring of each design is changed so that although it may be a "repeat" house, it looks entirely different.

Another method used to secure variety was to reverse the plan. This gives an original appearance, though the two similar houses may be on the same street. It takes a study of the houses themselves to realize that they are of the same type.

Every house, as mentioned before, is supplied with a garage, in some cases attached to the house. On account of the absence of cellars, laundries are built at grade line which gives room for a heating plant placed below the first floor level, allowing for a proper fall of pipe.

A maid's room was provided in



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each design which is located next to kitchen with its independent entrance from outside. In the majority of houses two baths rooms were provided. The sun porches and one or more outside porches or balconies are important points in every design.

Perhaps the most interesting feature from a builder's stand point is the method of building these houses. On account of water being encountered but a few feet below grade, cellars, of course, were not be thought of as the expense of making them water tight would be more than their worth, as for this particular class of house the extra space would be of no advantage. It was, however, necessary to have a solid foundation which was secured as follows.

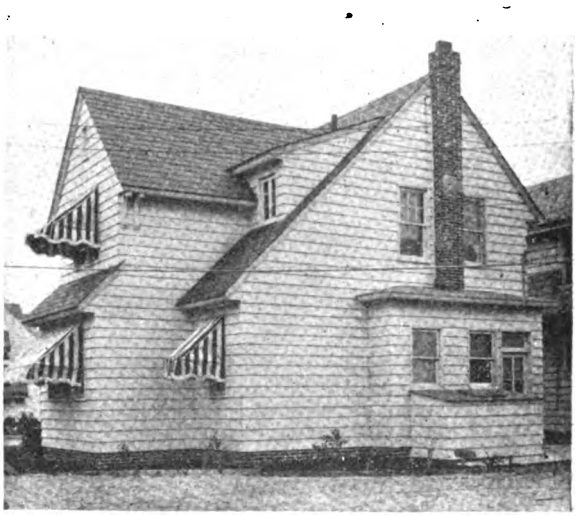
Yellow pine piles about 6 inches in diameter and 10 to 16 feet long were used in the foundations. These were pointed at the bottom by axe cuts in a few minute's time. As shown in one of our illustrations a small gasoline operated pile driver was used to drive piles down until they were firm.

For the frame houses piles were set 3 feet apart and for brick, concrete or hollow tile houses the piles were set 2 feet apart. All piles were used in single row, the tops were then cut off about 6 inches below grade and a slight excavation of two feet wide was made along the line of the wall or interior partitions, the piles being driven in the center.

This excavation to a depth of 10 inches below grade was simply made by shoveling away the sand. Form boards were used on each side and held in place by boards nailed across the top with two feet wide pieces at the bottom. Then a 10 inch bed of concrete was put into these forms

THE rear of the sample house showing how the coal box has been made a part of the house itself, the top is covered with asphalt rolled roofing,—all trim and neat as on a yacht.





topping the piles. Light reinforced rods were used to bind everything together.

This simple method produced a light foundation but sufficiently strong to withstand the shifting that may take place on somewhat treacherous ground.

FOR mixing the concrete a one cubic yard Ransome Concrete Machinery Co's. mixer was used. This was moved about by means of a Cleve tractor right to the job being poured, and it was a very simple matter to care for. Rapid work was made of foundation laying and regular 12 inch or 8 inch foundation walls of brick were laid on top of these concrete foundations or footings as we may term them.

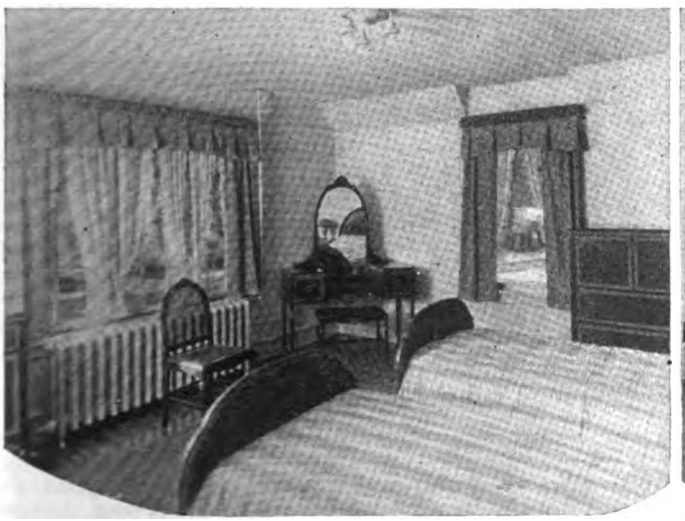
The piles were driven very easily, a small gasoline operated pile driver being used, made by Chas. B. Shramm & Sons of Philadelphia, Pa. Three men operated the pile driver, one operating the hoist and engine while the other two held the piles in position by means of pry bars. On an average it only took 5 minutes to sink one pile and another 5 minutes to skid the pile driver over the two or three feet necessary so as to be in position to drive the next pile.

As previously mentioned, various building materials were effectively used. For concrete and stucco work various brands of standard Portland cement were used among which were Atlas, Alpha and Lehigh.

Cinder concrete blocks were used in building quite a few of the stucco covered houses. The blocks were bought from the Concrete Supply Corporation of Atlantic City, the makers.

Hollow tile was supplied by the National Fireproofing Co., of Pittsburgh, Pa., and quite a number of stucco covered houses together with some of the special porches, etc., attached to the frame houses employed this material.

Common brick was supplied by the Sommers Brick Co., of Pleasantville, N. J., while the face brick





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PANORAMA view of West Drive. The numbers on the top of the picture correspond with the location of house on plot diagram

used was supplied by the Hydraulic Pressed Brick Co., of Winslow, N. J. A good deal of this is of the tapestry or wire cut variety.

There are quite a number of open fire places, practically every house boasting of at least one but the majority of these were only dummy fire places, that is, used only with gas. Humphrey Radiant Fire Heaters, made by General Gas Light Co. of Kalamazoo, Mich., were used. The open fire places were built of face brick. All chimneys were made of common brick, exposed portions being of face brick, all had terra cotta flue linings.

For the sake of uniformity but two materials were used for the main roofs—clay tile and slate.

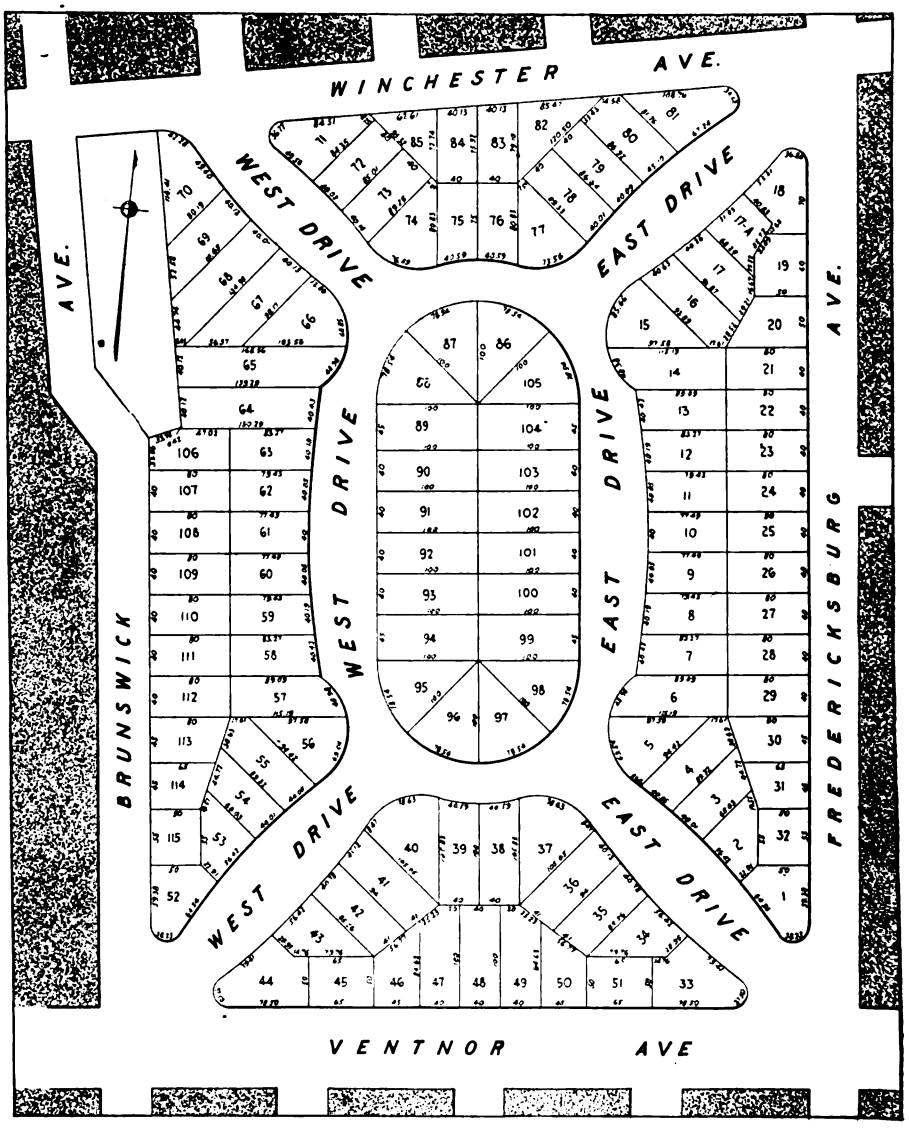
Of the tile various colors were used, red, green, brown and blue. On some roofs different shades of the brown from a light tan to dark brown were used in combination with greens and with an occasional red tile producing a mottled appearance.

One of the most striking roofs was on one of the Spanish structures finished in a dark grey stucco and topped with a gorgeous ultra marine blue glazed tile roof. Its unusual appearance was compelling, attracting attention not only to itself but to all other buildings in the group. All the roofing tile used was supplied by Ludowici-Celadon Co. Under the tile roofs Barrett's rubber roofing was employed, thus insuring a tight roof.

Many of the handsome roofs were of slate used in a variety of ways. The English style houses have beau-

THE method of making foundations is shown in this picture which clearly shows the piles and forms for the concrete foundations.





Plot plan of Marven Gardens occupying a space of eight rectangular blocks. The charming effect was obtained by using curving roads instead of the common straight ones

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PANORAMA of East Drive, parked spaces add attractiveness to this unusual development, fountains, evergreens, and flowers.

tiful variegated colored slate with rough edges and laid in true Old English style, the exposed surface of each course diminishing towards the ridge thus securing the effect of greater height and depth. Just a little optical illusion that builders should take advantage of when striving for certain effects.

In the Colonial style houses the plain colored slate of regular cut was used as this conforms best to this particular style of architecture.

On other houses different colored slates were used so as to produce the best possible effects for the particular design. Some have red slate roofs, some green and some a mottled effect. All of the slate used for roofing was supplied by the Vendor Slate Co., of Easton, Pa.

The flat roofs of a number of garages and the coal boxes etc., were roofed with asphalt ready roofing made by the Barrett Co., of New York.

Copper gutters and leaders were used together with some of galvanized iron. Flat roofs were covered with tin made by N. & G. Taylor Co. of Philadelphia. Many of the flashings being of the same material.

Particular attention was given to the plumbing. Porcelain and enamel iron fixtures were used with nickel plated fittings. All of the plumbing material, was obtained from the Crane Co., of Chicago.

THE gas ranges were two kinds; Vulcan Smooth Top and the Oriole, both made by the Standard Gas Equipment Corporation of New York and Baltimore.

One particular feature of all these houses is the laundry and heating plant. This is situated a few steps below the first floor of the house. In this room is located the wash trays and hot water supply boiler to which is connected a Lyon gas heater made in Cleveland, Ohio. The different galvanized water pipes and fittings were supplied by Messrs. Haines, Jones and Cadbury of Philadelphia. All the plumbing equipment was furnished through the Currie Co., of Atlantic City.

The buildings were heated by a gravity hot water system. The H. B. Smith Co., of Philadelphia supplied the boilers and radiators. The different pipes, valves, etc., were supplied by the Crane Company. The return piping under the first floor was covered with asbestos piping covering furnished by the Johns-Manville Co.

Porcelain enamelled medicine cabinets were installed in every bathroom. These were supplied by the Columbus Steel Metal Cabinet Co., of New York.

In the construction of the wood frame buildings, North Carolina pine is used for the studs while Yellow Pine exclusively was employed for joists and rafters. All frame buildings were well sheathed and covered with heavy building paper and insulating quilt.

On the first floor oak floors of 15/16"was laid over a sub-floor. This special oak flooring was laid by C. J. Carlson of Atlantic City, a specialist in this line of work. On the second story 2½" grain yellow pine B and better grade was used. This



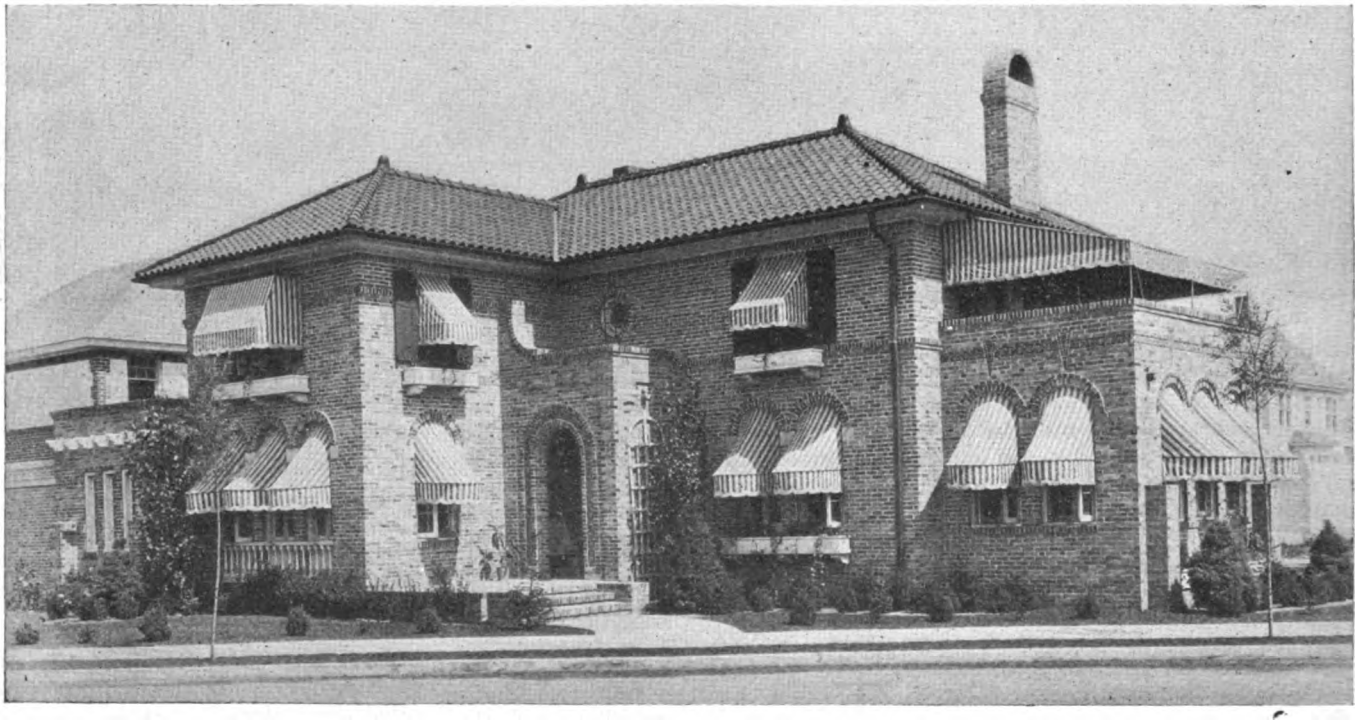
DIFFERENT materials are used in the construction of the various houses. Here (house on right) is shown the construction of our cover design home.





A GROUP of houses rapidly nearing completion. The Dutch Colonial, Spanish and Italian are some of the styles of architecture in this group.

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was supplied by the Central Lumber Company of Atlantic City. Barrett's sheathing paper was laid between the sub and top floors.

All interior walls were covered with wood lath and plastered, galvanized iron corner beads being used on all corners. The finishing plaster used was Meriom neat lime furnished by the Meriom Lime and Stone Co., Norristown, Pa.

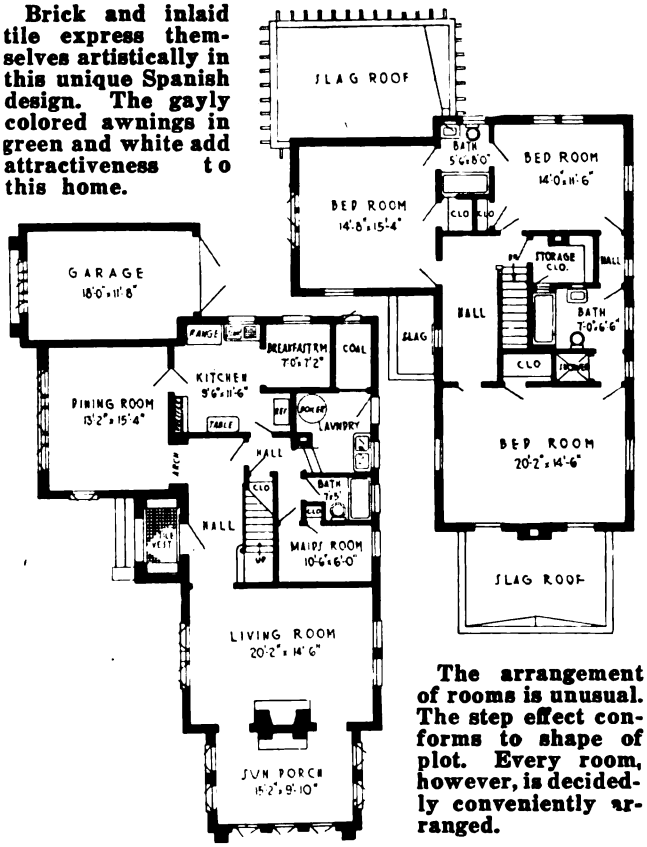
Iron columns, reinforcing iron, etc., was supplied by A. W. Cunningham Co., of Atlantic City.

The different hardware used throughout was bought from the Currie Co., of Atlantic City. Different lock sets, etc., used were made by P. and F. Corbin, New Haven.

In painting the exterior and interior trim National Lead Co.'s Dutch Boy White Lead was used. In the kitchens Standard Textile Products Co.'s "Sanitas" on walls.

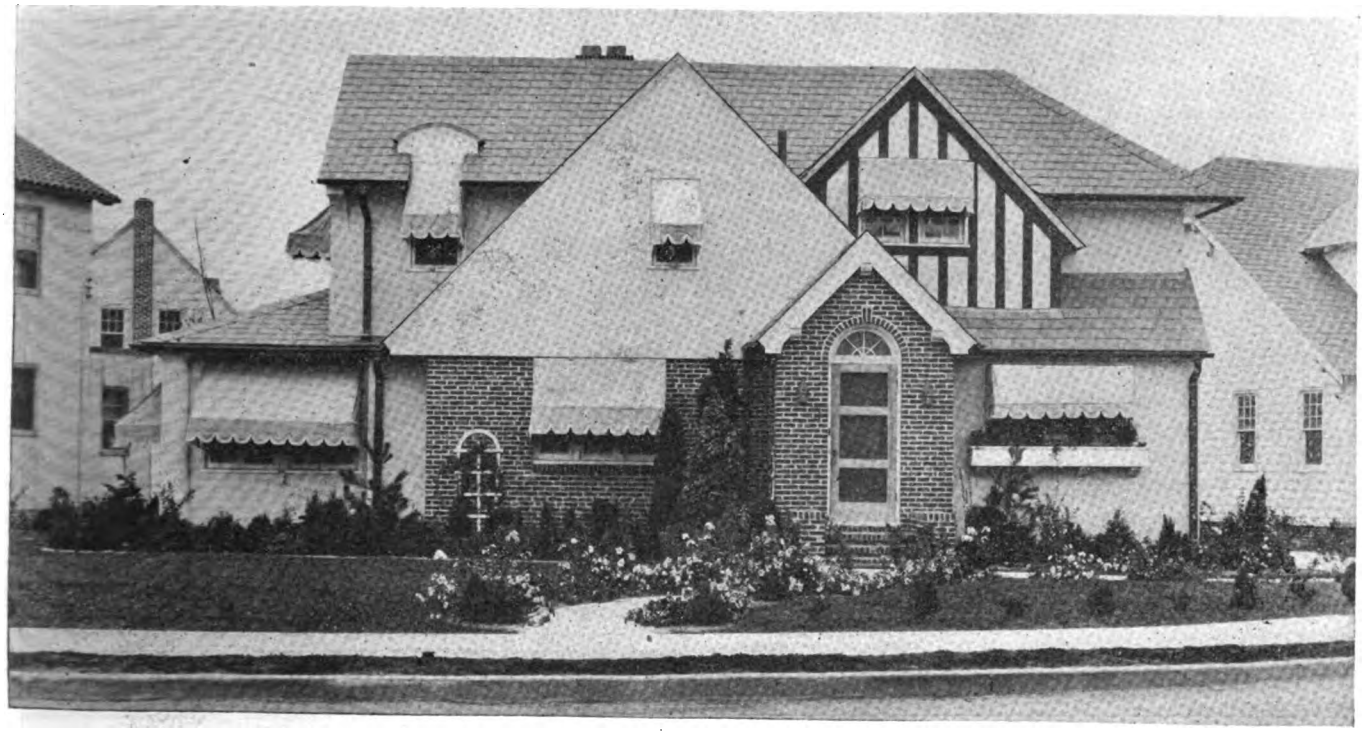


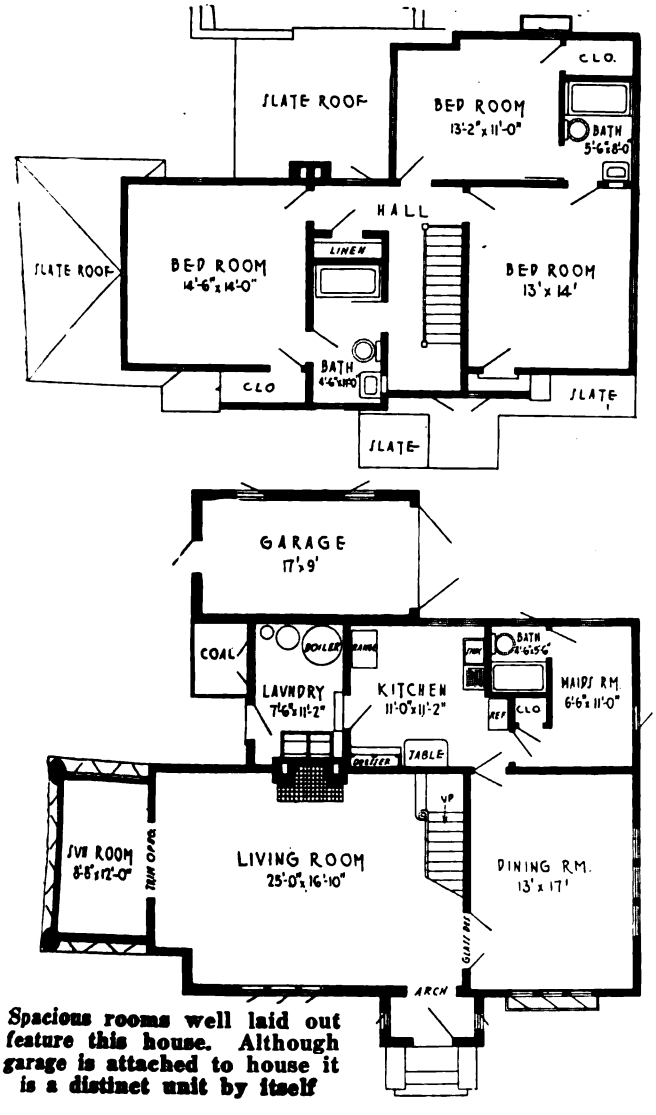
Brick and inlaid tile express themselves artistically in this unique Spanish design. The gayly colored awnings in green and white add attractiveness to this home.



The arrangement of rooms is unusual. The step effect conforms to shape of plot. Every room, however, is decidedly conveniently arranged.

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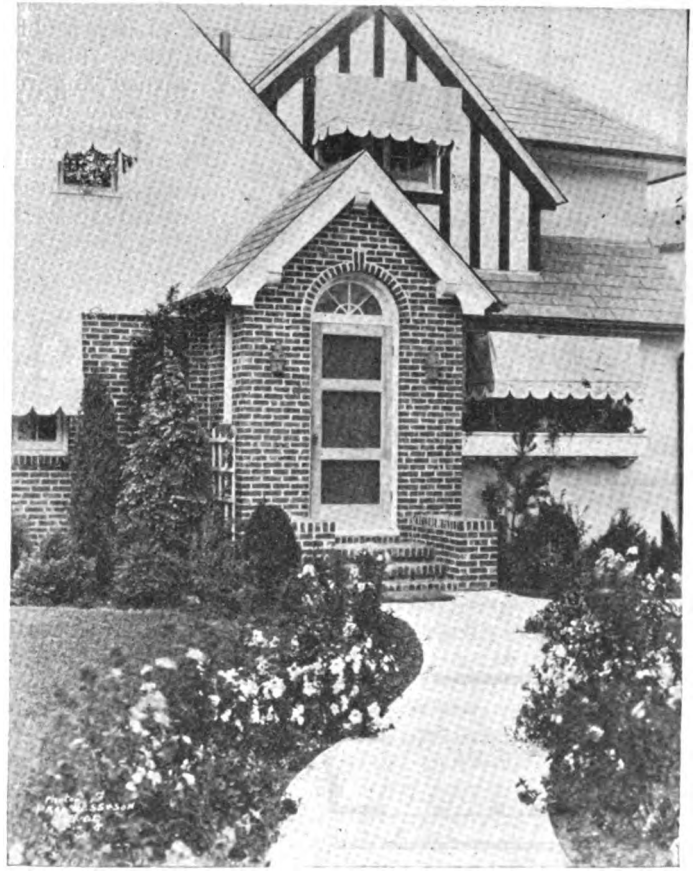


Spacious rooms well laid out feature this house. Although garage is attached to house it is a distinct unit by itself

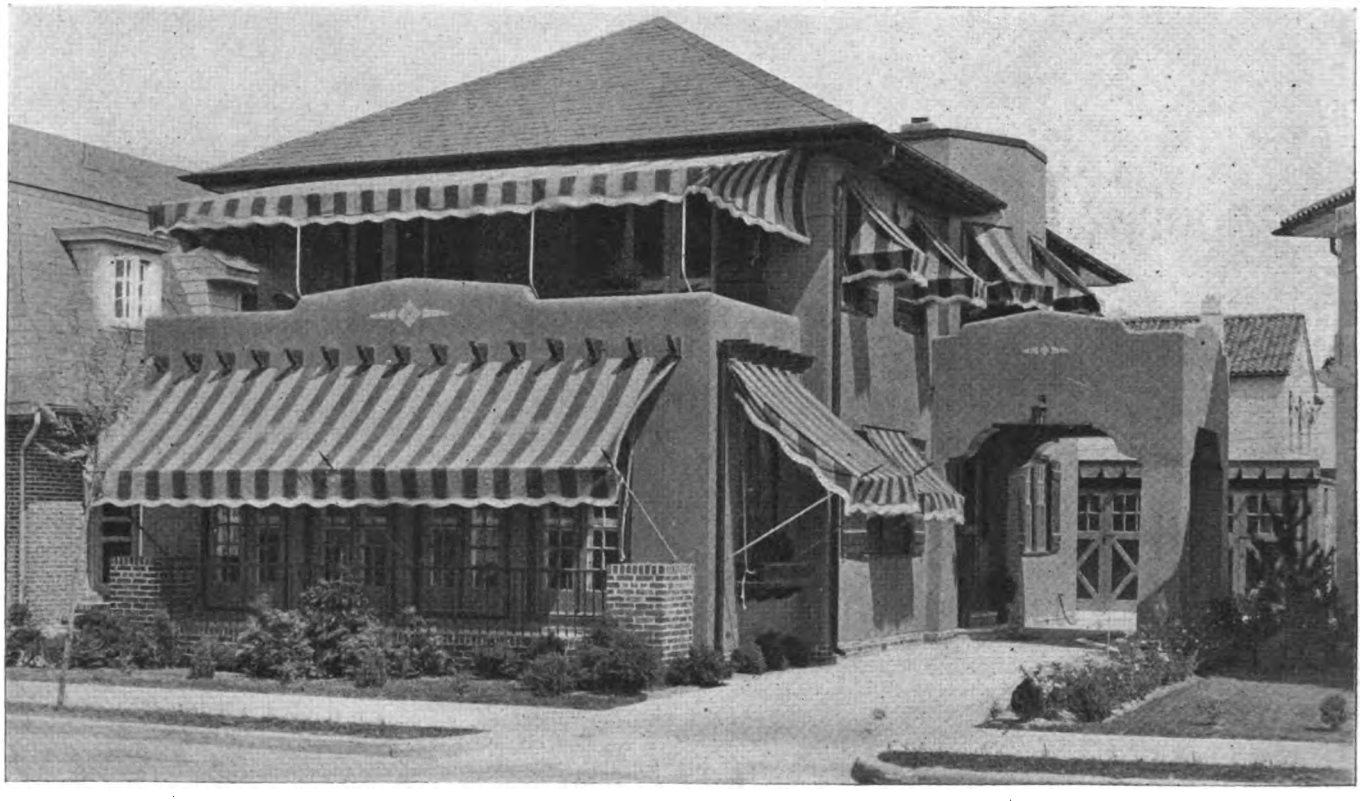
The suggestion of the English reveals itself in this interesting home design. Solid grey awnings add a further note in keeping with the design.

The other rooms were not decorated as this was left to the individual choice of the future owners, but to relieve the blank appearance of plain white plastered walls they were all given a tint of Alabastine on walls and ceilings.

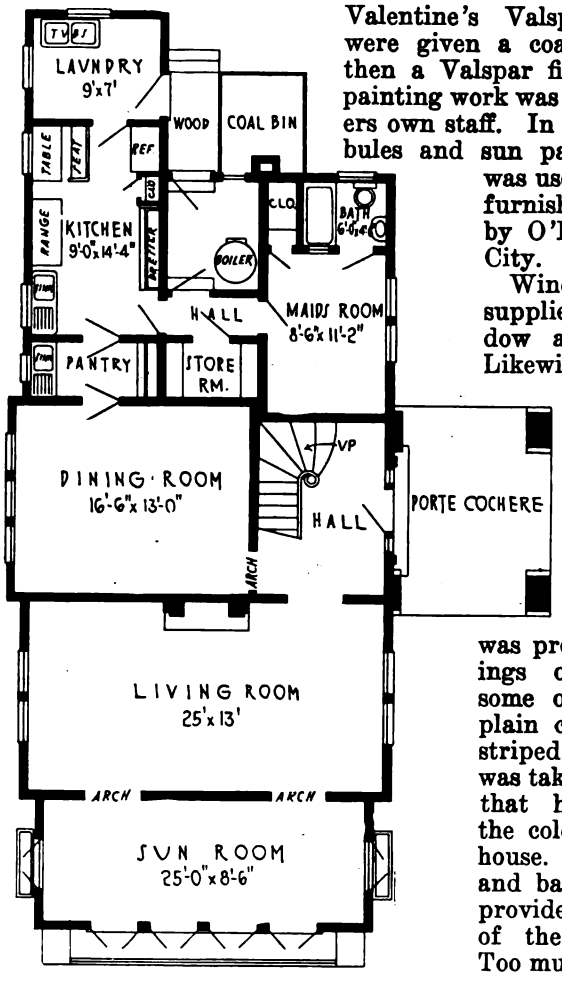
The varnish used throughout was



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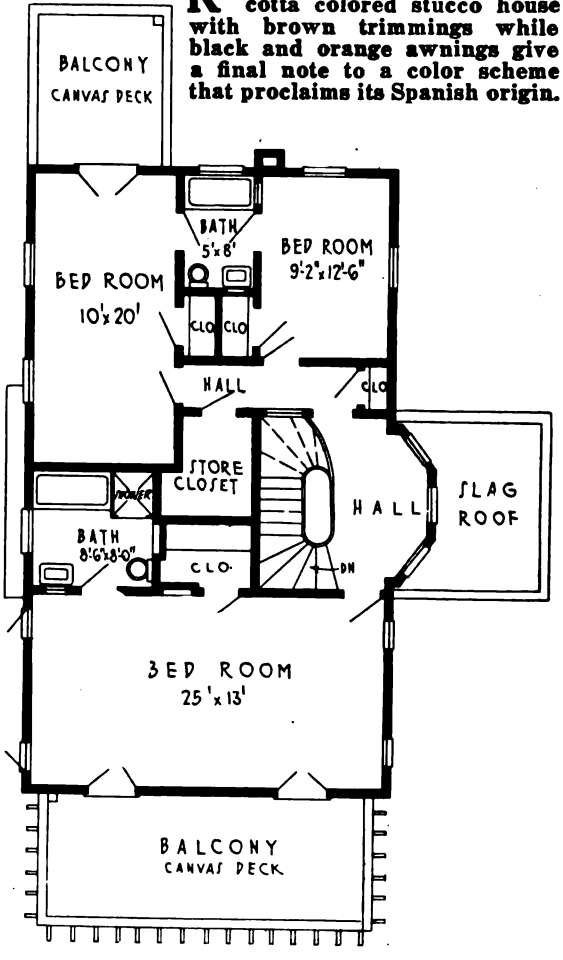


RATHER striking is this terra cotta colored stucco house with brown trimmings while black and orange awnings give a final note to a color scheme that proclaims its Spanish origin.



Valentine's Valspar. The floors were given a coat of shellac and then a Valspar finish. All of the painting work was done by the builders own staff. In some of the vestibules and sun parlors rubber tile was used. This was also furnished and installed by O'Keefe of Atlantic City.

Window curtains were supplied for each window and glazed door. Likewise every window was provided with awnings of heavy duck; some of these were of plain colors and others striped. Particular care was taken to select colors that harmonized with the color scheme of the house. Open porches and balconies were also provided with awnings of the same material. Too much cannot be said

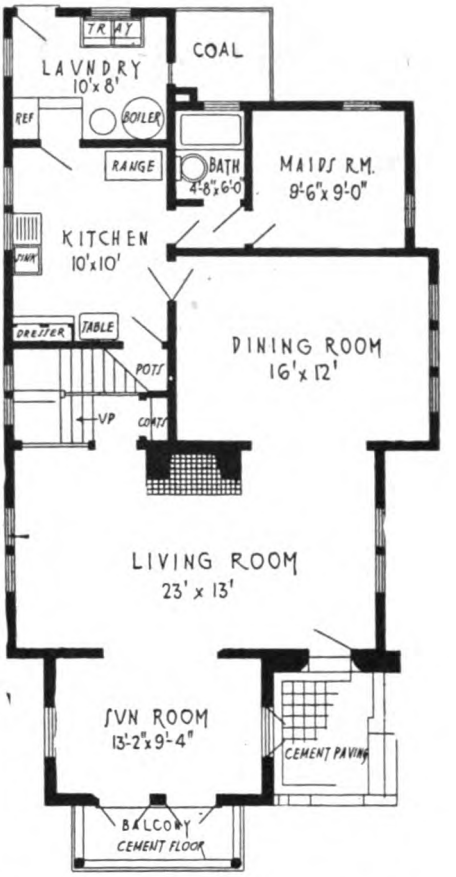


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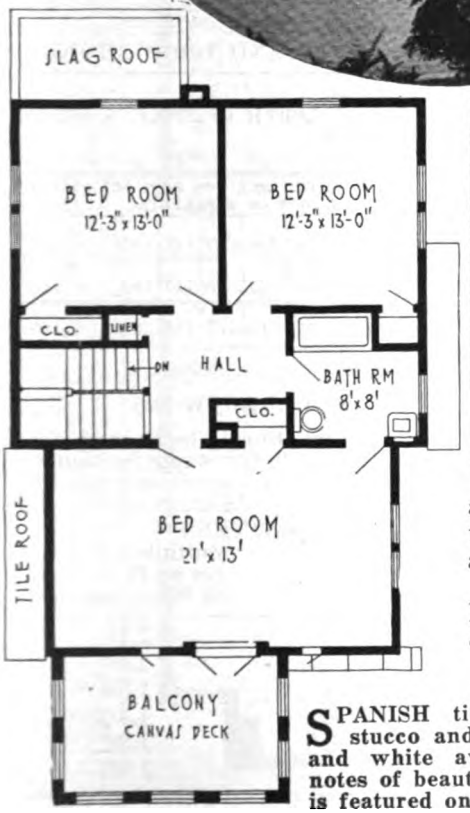
The House on Our Cover

A Little Gem from the Spanish With Thoroughly American Floor Plan









SPANISH tile roof against white stucco and brown trim with red and white awnings strike unusual notes of beauty for this house which is featured on our cover.



about the really wonderful decorative effects obtained by the use of awnings.

The finishing touch was given by landscaping—good top soil was laid on the sand, lawn seed planted and around each house was placed a foundation planting of dwarf evergreens and shrubs with here and there a tall specimen where it would enhance the beauty of the house.

The houses were thus finished in a most complete manner and of course they looked their best.

This is but a small list of the principal materials entering into the construction of different houses erected

(*Please turn to Page* 100)

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Short Cuts in Estimating

By Albert Korte

THE following tables will enable the builder, architect, engineer, and appraiser to determine the quantities of building material required, in a quick and efficient manner.

Simply compute the superficial area of the various walls, ceilings, roofs, etc., deduct for openings and multiply by the given multiple in the tables for the various classes of work.

By using these tables much laborious computing is avoided and the changing from one unit of measure to another takes place automatically through the use of the proper multiple. Waste for cutting lumber is included in each multiple and the percentage allowed is stated.

BRICK WALLS

Thickness of Wall in Inches	Multiple for No. of Brick per sq. ft. of Superficial Area
4″	7.5
8″	15.0
12″	22.5
16″	30.0
20″	37.5
24″	45.0
28″	52.5
32″	60.0
36″	67.5

MASONRY AND EXCAVATION

Thickness of Wall	Multiple for cu. yds. per sq. ft. of Superficial Area
1″	.0031
2″	.0062
3″	.0093
4″	.0123
5″	.0154
6″	.0185
7″	.0216
8″	.0246
9″	.0278
10″	.0309
11″	.0304
1′	.0370
2′	.0741
3′	.1111
4′	.1481
5′	.1852
6′	.2222
7′	.2593
8′	.2963
9′	.3333
10′	.3704
11′	.3704

Example: Wall = 2′-4″ thick and 451 S. F. of wall surface.

Compute the number cubic yards:

2′ = .0741 See table above
4″ = .0123

.0864 Cubic yds. per S.F. of area

451 S.F. of wall:

451 × .0864 = 38.9 cubic yards

FLAT LUMBER

Dressed: 10% for waste in cutting, etc., included.

Sizes in Inches	Multiple for F.B.M. per lin. ft.
1 x 1	.09
1 x 2	.18
1 x 3	.28
1 x 4	.36
1 x 5	.46
1 x 6	.55
1 x 7	.65
1 x 8	.74
1 x 9	.83
1 x 10	.91
1 x 11	1.01
1 x 12	1.10
1¼ x 1	.11
1¼ x 2	.23
1¼ x 3	.34
1¼ x 4	.46
1¼ x 5	.57
1¼ x 6	.69
1¼ x 7	.80
1¼ x 8	.91
1¼ x 9	1.03
1¼ x 10	1.14
1¼ x 11	1.27
1¼ x 12	1.38

SQUARE EDGE BOARDS

Width of Rough Stock	Thickness of Rough Stock including 10% Waste			
2″ to 12″	1″	1.10	1⅛″	1.38
	1½″	1.65	1¾″	1.93
	2″	2.20	3″	3.30
	4″	4.40		

SHINGLES

Multiple for Number of Shingles per sq. ft. of Superficial Surface.

Exposure	4″ Shingles	6″ Shingles
4″	9.0	6.0
5″	7.2	4.8
6″	6.0	4.0
7″	5.14	3.43

BOARDING MATCHED AND BEADED

THICKNESS IN INCHES	WIDTH OF STOCK IN INCHES								
	3″	4″	5″	6″	7″	8″	9″	10″	12″
	MULTIPLE FOR F.B.M PER SQUARE FOOT OF SUPERFICIAL AREA								
1″	1.33	1.33	1.28	1.25	1.22	1.20	1.19	1.18	1.17
1¼″		1.66	1.60	1.56	1.53	1.50	1.49	1.48	1.46
1½″	2.13	2.00	1.92	1.88	1.83	1.80	1.79	1.77	1.76
2″		2.76	2.63	2.51	2.46	2.41	2.42	2.30	2.36
3″		4.19	3.93	3.81	3.72	3.66	3.63	3.60	3.54
WASTE	33%	33%	28%	25%	22%	20%	19%	18%	17%

PLASTERING

Multiple for sq. yds. per sq. ft. of area ..... .111

CLAPBOARDS

Width in Inches	Exposure	Waste	Multiple per sq. ft. for 1″ Thickn's
5	5.5	.53	1.53
5	3.75	.43	1.43
6	3.5	.81	1.81
6	3.75	.71	1.71
6	4.	.60	1.60
6	4.25	.51	1.51
6	4.5	.43	1.43
6	4.75	.37	1.37

NOVELTY AND DROP SIDING

THICKNESS IN INCHES	WIDTH OF STOCK IN INCHES						
	5″	6″	7″	8″	9″	10″	12″
	MULTIPLE FOR F.B.M. PER SQUARE FOOT OF SUPERFICIAL AREA						
1″	1.35	1.30	1.27	1.24	1.22	1.21	1.51
1¼″	1.69	1.63	1.59	1.55	1.53	1.19	1.49
WASTE	35%	30%	27%	24%	22%	21%	19%

MOULDED WORK

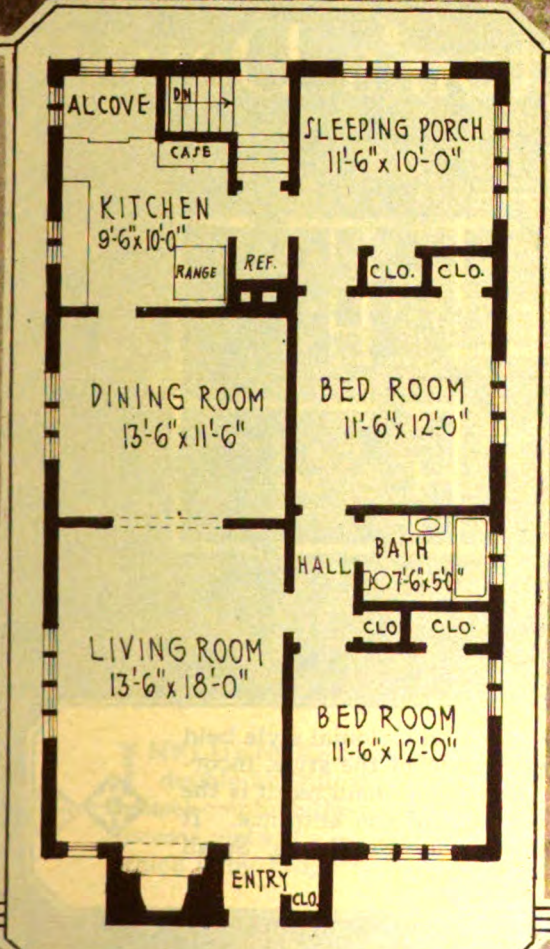
Multiple for lineal feet, including waste, 1.05, 5% for waste included.

BATTENS

Width of Boards	Multiple for lin. ft. per sq. ft. of Area, 5% Waste included
6″	2.10
7″	1.80
8″	1.58
9″	1.40
10″	1.26
12″	1.05

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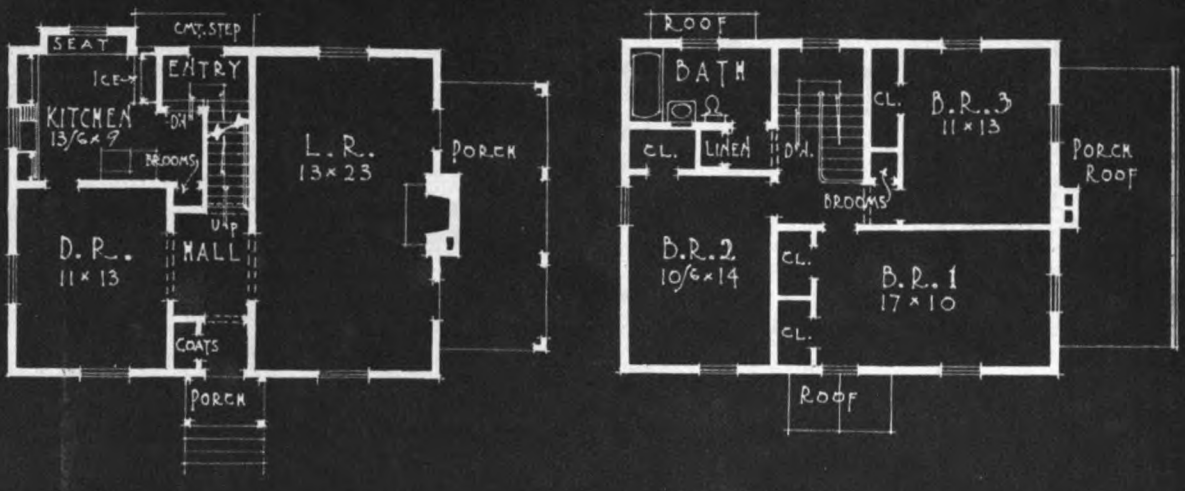
Its Materials Make for a Rich Play of Color

BRILLIANT in the mountain sun, the copper roof of this bungalow takes on exquisite gradations of color as the light varies. The roof is in fine harmony with the brickwork and is strikingly set off by the white stucco walls and the green of the exterior woodwork. The location of the chimney at the front makes it an important element in the design, and gives the fireplace an unusual position in the living room. The house, located in Denver, Col., is the design of Architects' Small House Service Bureau, Mountain Division, Denver.

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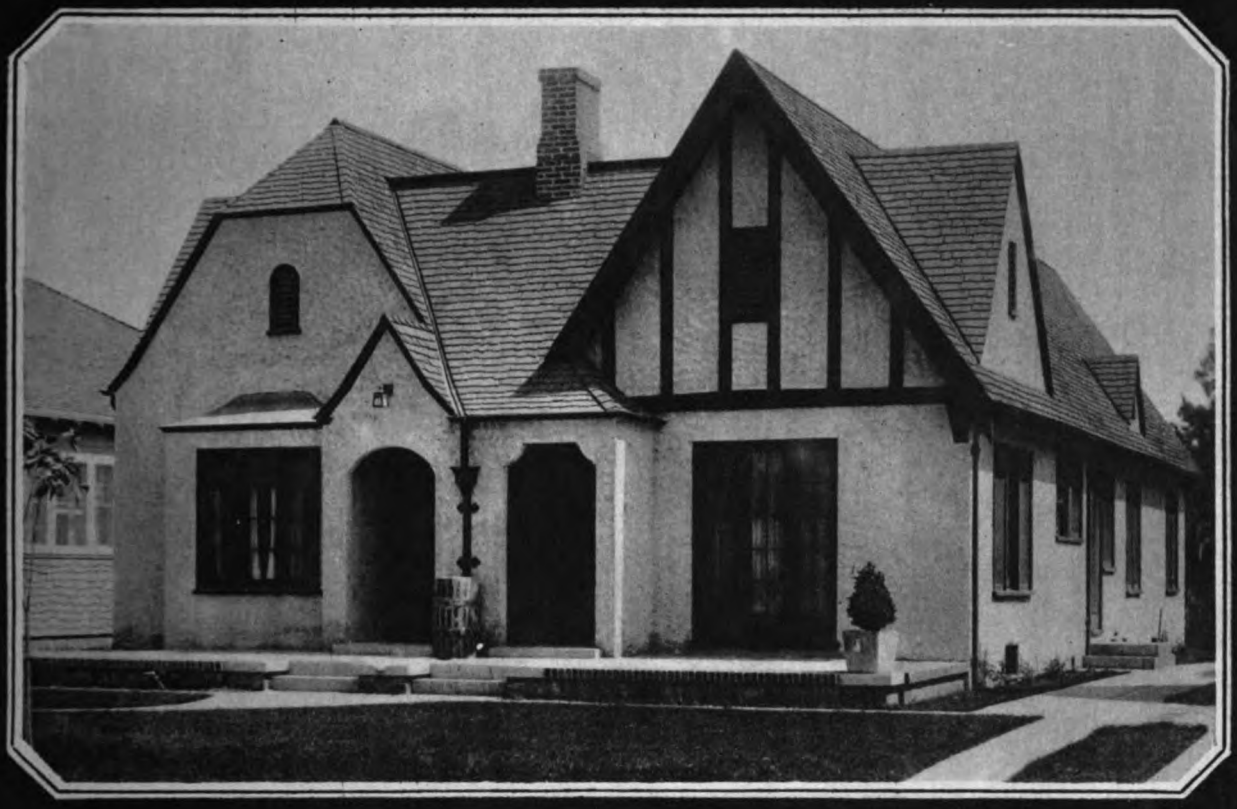


As in Washington's Day

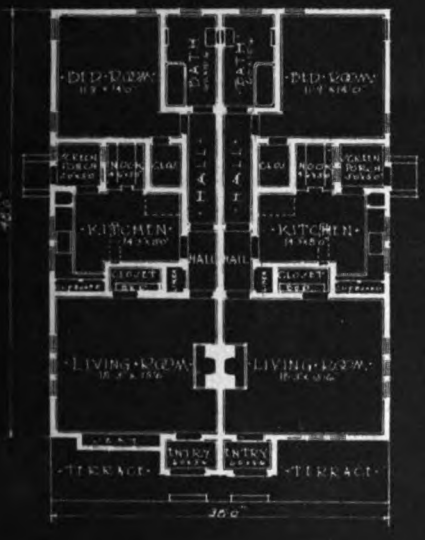


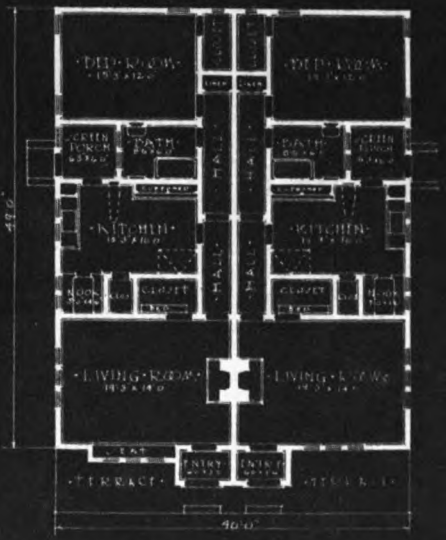
FOR more than two centuries has the New England Colonial style held its favor in America. Here is seen an adaptation of the style, incorporating the features that enter into modern houses. The main motif is the arch occurring in both porches and in the fanlight of the entrance. It was built in River Forest, Ill., and was designed by Architects' Small House Service Bureau, Minneapolis.

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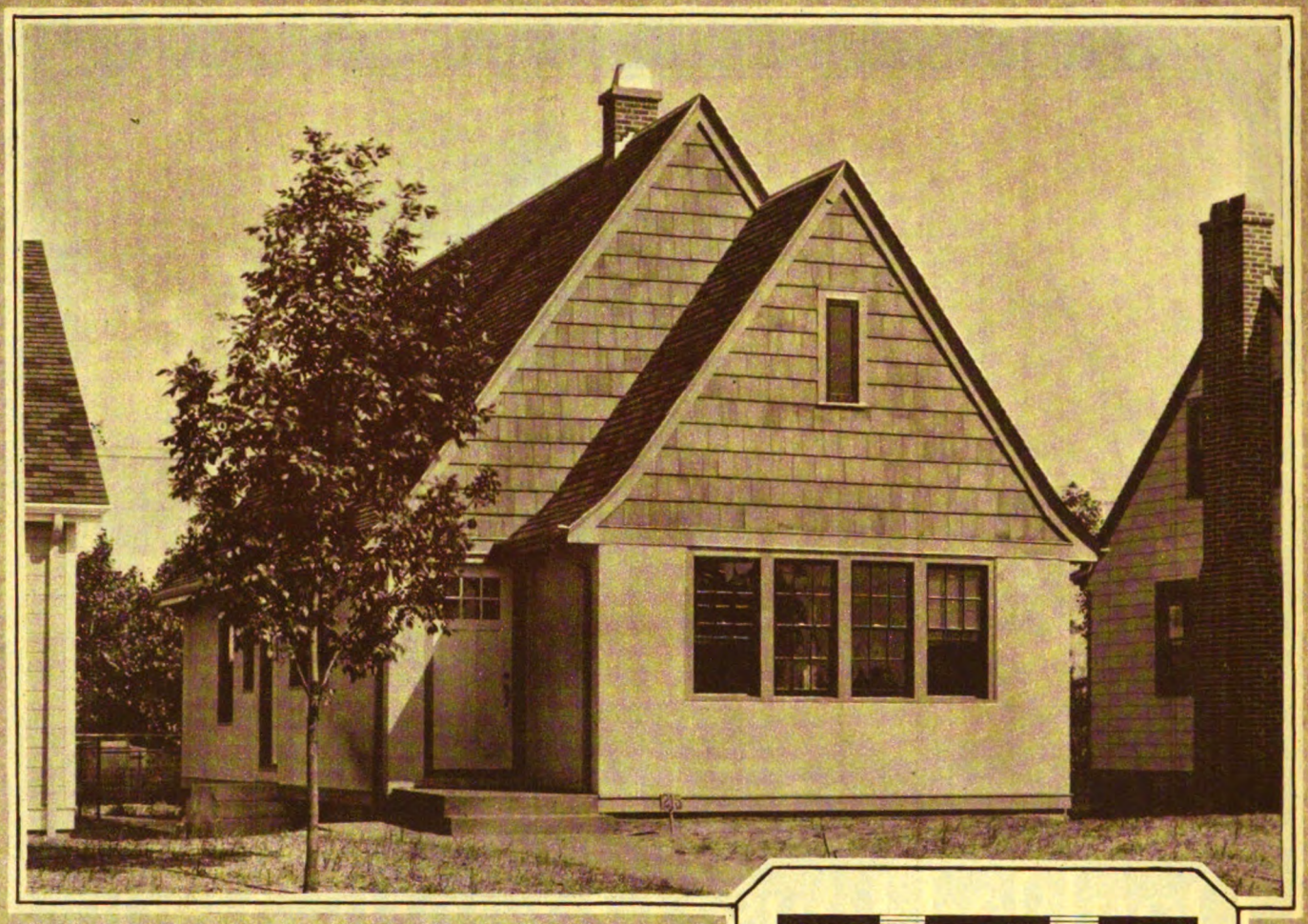
Double House Quaintly Made





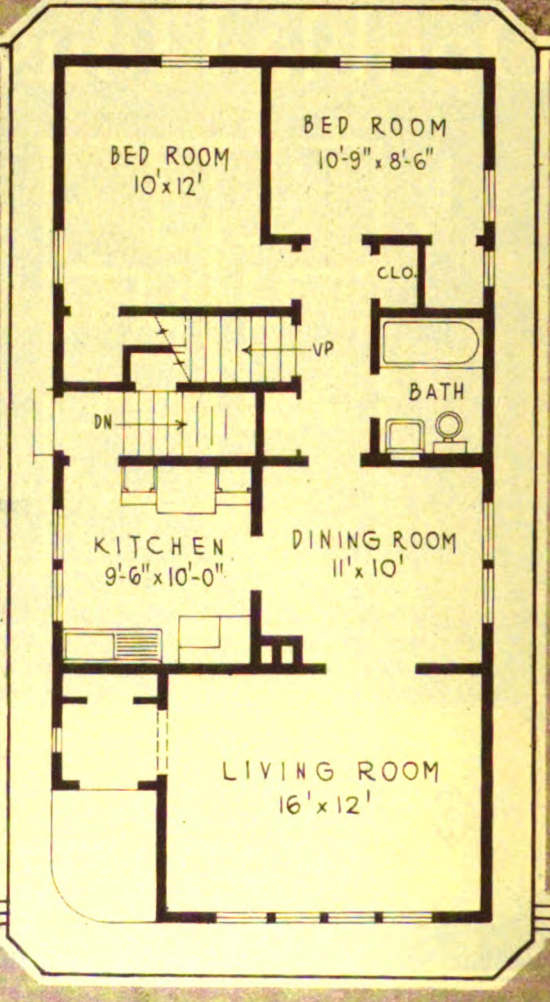
INFLUENCES of an Old World style are seen in this quaintly designed double bungalow, especially in the charmingly varied roof lines. Such houses combine the attractive appearance of a home with the efficiency and income yield of a double-flat. Alternate plans are shown for this design, which is by Floyd A. Dernier, architect, and stands at Los Angeles, Cal.

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Taste Graces This "Development" House

TIME was—only too recently—when real estate development meant row on row of houses all monotonously alike except for a few conventional changes. Here is a house, chosen from a group development, which is unlike its neighbers, yet is distinctly in good taste. This is one of the smaller houses in a group being built by Koster & Zander, in Sauganash, a residential district of Chicago. It shows what can be accomplished with simple means. The architects are C. W. Lampe & Co., Chicago.



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FINANCE and REAL ESTATE

Helpful Data for the Builder Who Builds to Sell

A House on Every Third Lot in a Year

By Frank H. Williams

NEARLY a year ago an addition of about 100 lots was opened in a middle western city of about 100,000. At present there are nearly 40 brand new houses on the addition which have just been completed, while five or six other houses are going up.

The avowed intention of the addition promoters—which was stated at the time the tract was placed on the market—to have an occupied home on every third lot within a year, has been more than fulfilled.

While, perhaps, this record for a new addition is not extraordinary, the method used is noteworthy, and will probably lead other builders to adopt similar measures.

Here, then, is the way the proposition was put over, as told by the promoter himself in his own words:

"When we planned to put on this addition and to build it up so well in such a comparatively short time, we considered two methods of working out the proposition.

"One of these was to concentrate on getting into the addition the maximum possible number of a certain class of people. For instance, we might have sold the addition exclusively to doctors and lawyers and might have added a few automobile salesmen, or railroad engineers or other kinds of people.

"Such a method would, undoubtedly, have gotten results because it would probably have been possible to start something of a band wagon rush of doctors and attorneys to the addition.

"But, on the other hand, unless such a method was put over big with a bang at the start it held serious possibilities of falling through.

"The other method we considered was that of getting the greatest possible diversity of occupations into the addition—one attorney, one doctor, one railroad engineer, one druggist, one hardware store executive and so on. And it was this plan that we finally determined upon.

"We decided upon this plan in building up the addition because it seemed the easiest and most reasonable. It certainly seemed as though it shouldn't be such a difficult task to get one attorney out of all the lawyers in the city to build a home on our tract. And it certainly seemed as though it shouldn't be very hard to get one druggist out of all the druggists in the city to put up a new home there. And so on through all the various occupations.

"THAT was the plan we determined to work on, and it is the plan which made the proposition a success for us.

"But just how did we use this plan in making a success of the sale of lots and a success in building up the addition so well in such a short space of time?

"In the first place we went through all the various occupations listed in the telephone directory. How many different occupations do you suppose are listed in the classified pages?

"There are 382 different occupations listed in our book, running all the way from abstractors and accountants to X-ray supplies and yeast companies. Think of that!

"In other words there were nearly four different occupations for every lot in our addition. So, surely, we felt there should be no very great difficulty in getting one man out of every four different occupations to buy a lot and put up a house.

"As we went through the various occupations we checked off those which didn't offer immediate possibilities from a sales point. For instance one of the occupations listed was that of Directory publisher. But there are only two directory publishers in our city and we knew that both of them had just erected new homes, and couldn't possibly be considered as good prospects for us.

"After going through the complete directory and eliminating all the impossibilities, we had a list of about 100 different occupations which should contain good prospects.

"The next thing was to divide up the various occupations among the salesmen who were going to work on the project. There were ten of us who were going to sell the idea and this gave each of us ten lines of activity to follow up.

"For instance, I had dairies, dentists, department stores, dressmaking, druggists, electrical appliance stores, electrical contractors, engravers and designers, etc.

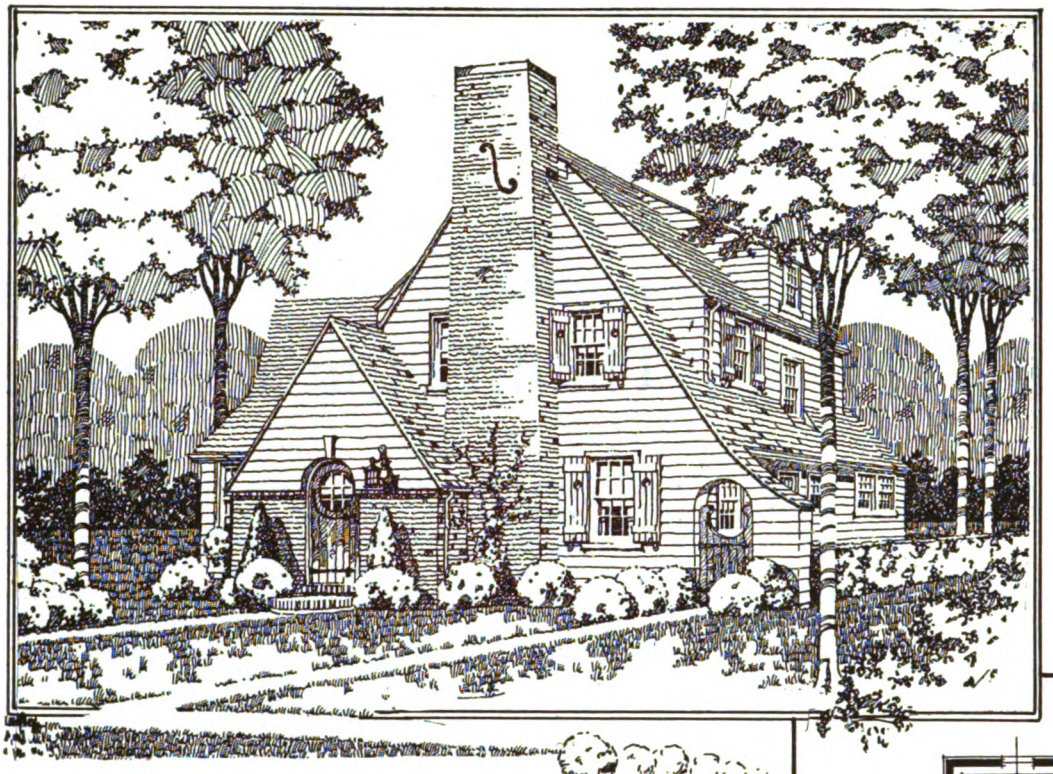
"QUITE a variety of occupations and, on the fact of it, there didn't appear to be a likelihood of difficulty in finding at least one person in each of these ten lines of activity who would buy a lot.

"Each of the other nine people engaged in selling the lots and homes had similar lists of occupations from which to find their prospects and among which to make their sales.

"From this it is evident that there could be no overlapping of effort and there was plenty of opportunity for each salesman to sell his quota of ten lots and four homes.

"And, of course, getting the whole proposition down to brass tacks in this way made it a lot easier to go out and sell the properties than under any of the old plans whereby we had nothing particular to work except the quota alone.

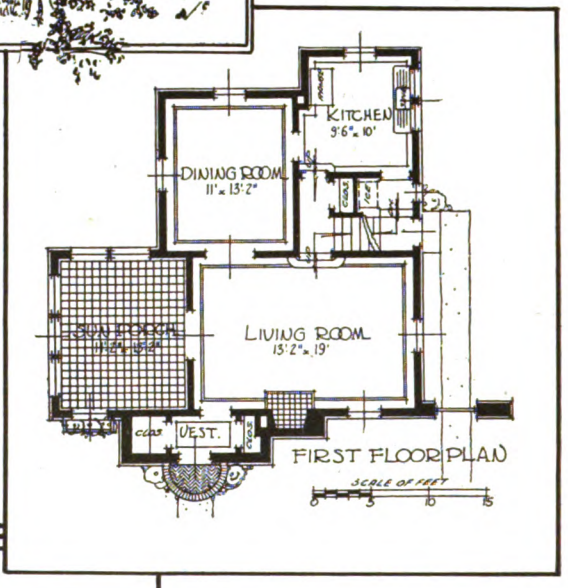
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HOW quaint and personable can be a chimney that is molded into the complete design. Here have been effected proportions of unusual value; the form is simple and practically free from embellishment, yet the impression is altogether one of beauty and identity. Fine old Colonial "clinker" brick has been worked in with true regard for proportion coupled with something just the least bit "different."

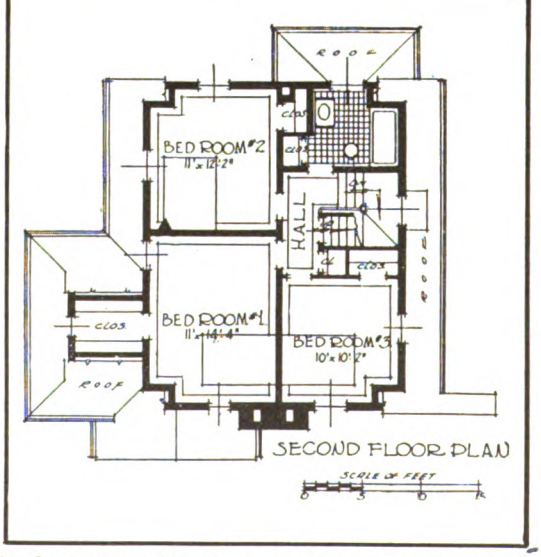
The CHIMNEY Dominates

Designed by
R. C. Hunter & Brother,
Architects



THERE is something notably good about this house, a certain grace of line; concisely—good character. Weathered brown shingles cover the sloping roof and the wide siding is painted white, or if preferred, cream colored siding would be as effective. The shutters are a warm shade of green and the round headed front door and quaint little entrance gates made more unique by painting them green, as well.

Splendid old Colonial "clinker" brick make up the chimney and vestibule with striking success. There is a small vestibule with two closets just inside the entrance door. From there one enters the living room, coming upon a massive fireplace —one of the "high points" in this home. A sun porch connects with the living room and from the latter well arranged and compact stairs lead to the upper floor.

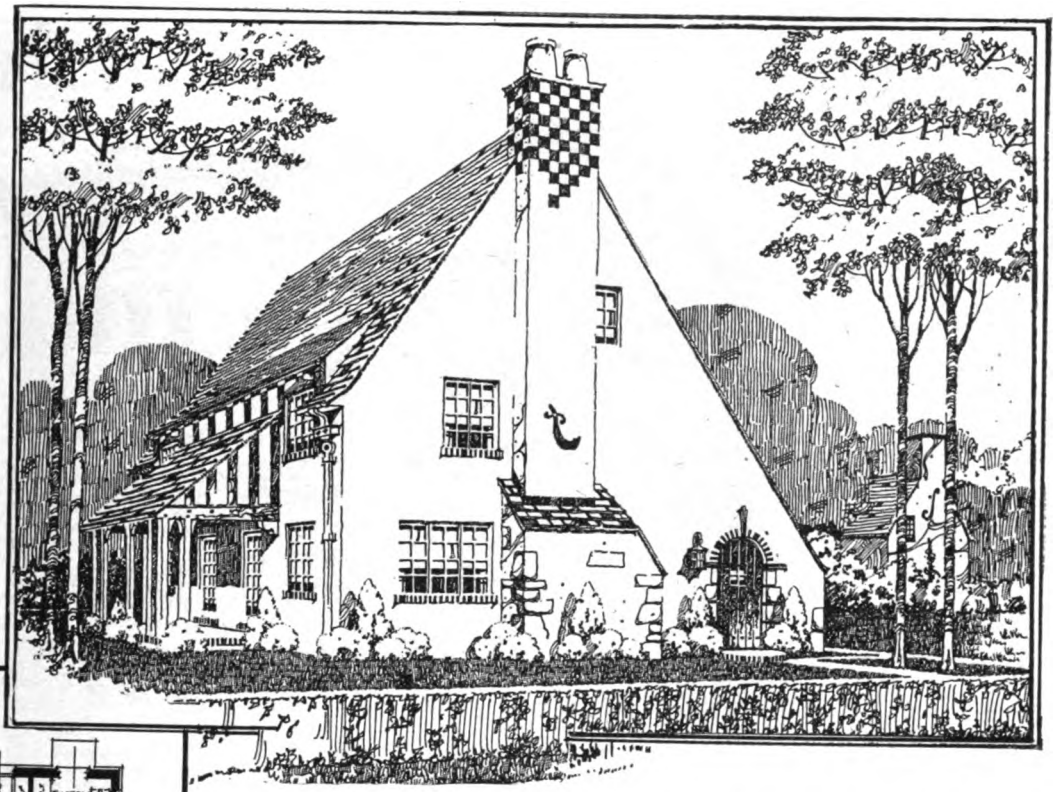


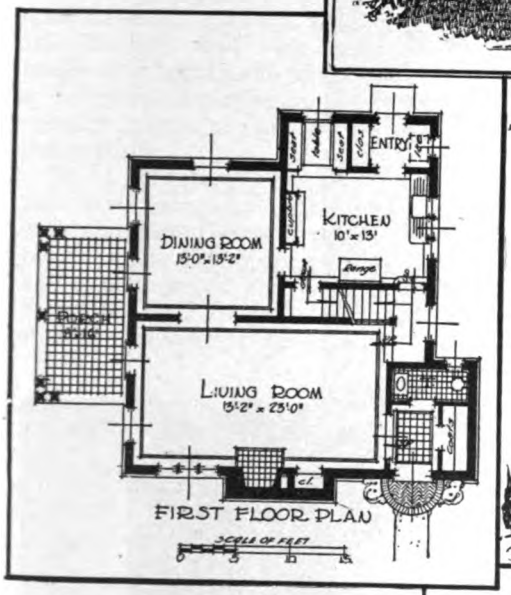
Bedrooms and bathroom are grouped around the tiny hall in orderly fashion.

There the rooms are grouped about a small, serviceable hall from which are accessible three bedrooms and the tiled bath. Of signal importance in connection with these rooms are many fine closets, designed for the consummate convenience of the occupants. They carry out the successful attempt on the part of the designers to combine the attractive with the practical, never losing sight of artistic possibilities in interior arrangement. The estimated cost of this home is $9,600 for ordinary good construction.

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WHEN the designer of homes veers from the path of the commonplace and the accepted, and conceives a treatment that is at once unusual and in accord with good principles—that artist is worthy of every encomium. The craftsman who rendered this English cottage type has interpreted accurately, painstakingly, yet he has produced a chimney that shuns the ordinary. Alternate squares of stucco and brick, no less!





The roof emulates the English truly, in that the pitch has in no way been stinted. Only by providing the steep slope can this period be accurately interpreted.

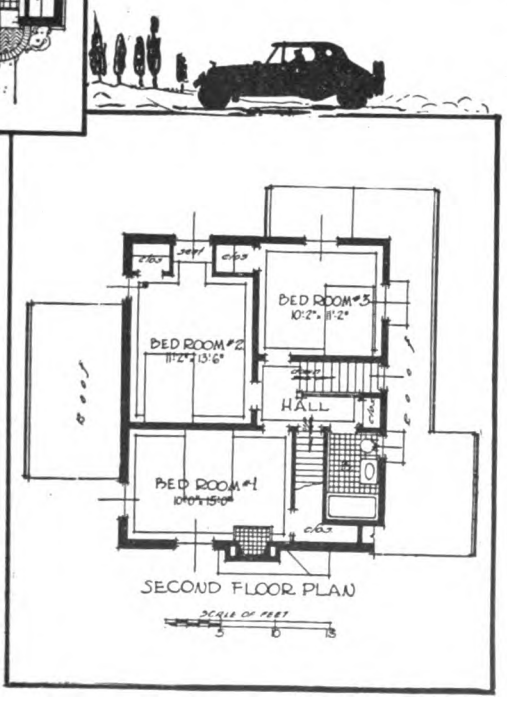
Exterior walls are hollow tile and stucco with occasional brick and stone trimmings. The roof is slate and the chimney checkered with alternate squares of stucco and brick. The English interior idea is carried out with solid sticks for timber work with antique, hand-adzed finish. The windows of course, are casement type.

The same care in design has been followed in the arrangement of living quarters. The first floor plan provides a small entrance vestibule with toilet and coat room adjoining. This vestibule has a floor of tile, dropped two steps below the living room level. Thus, the entrance door is found level with the grade and the exterior appearance greatly enhanced.

On the second floor the bedrooms and bathroom are grouped around the hall in convenient fashion. One of these acts as a servant's room and all have commodious closets. The space left by two of these is utilized for a delightful little window seat. In the other large bedroom, this feature is matched by a fireplace. The cost to build the house is in the neighborhood of $12,500.

FOR those who prefer something a little out of the ordinary, something that varies just enough from the commonplace design, this house will immediately engage their attention. It is a home of which one can say, "It is an accurate interpretation yet notably unhackneyed." In short, a house that has been created along good artistic principles yet following in detail little that suggests the usual.

It is purely the English cottage type and boasts a striking chimney and a most personable entrance. These two features are well placed and properly balanced with plain stucco walls.



Both floors are marked by compact room arangement and many outside openings

BLUE Print Plans and Specifications with Models of many Beautiful Homes of Moderate Cost can be supplied at a nominal price by Building Age and National Builder, 239 West 39th St., New York.

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The Frost National Bank of San Antonio, Texas

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A Friendly Southern Bank

Architects
Sanguinet & Staats
Fort Worth

By Ruel McDaniel

Builder
J. P. Haynes
San Antonio

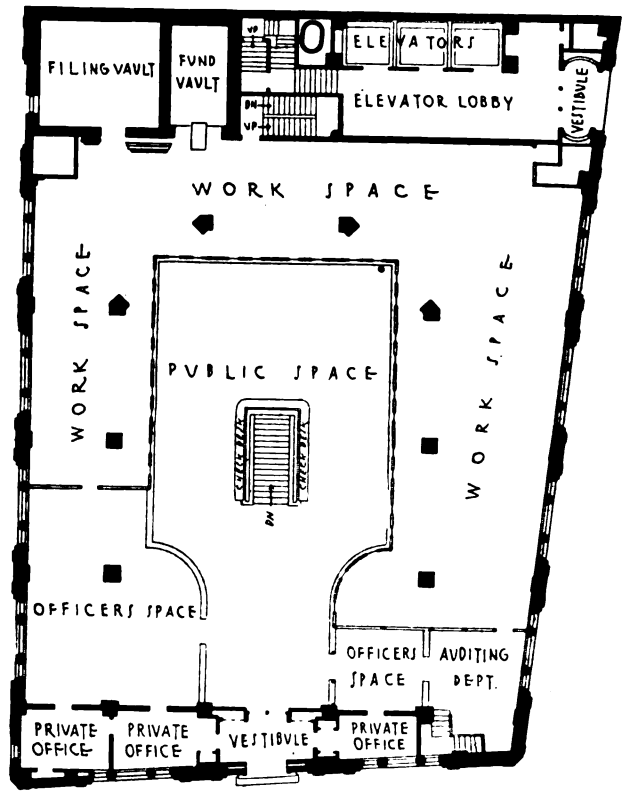
ON a spot rich in tradition of San Antonio's turbulent, glorious past, a modern structure now stands, a symbol to the solidity, the prosperity that have come out of the maelstrom of the Lone Star State. It faces historical Main Plaza, a building combining dignity with friendliness, and convenience with beauty; in short, a delightful building in an equally delightful semi-tropical setting.

To lend itself to the peculiarly irregular lot and still maintain the best proportions, an L-shaped plan has been followed above the bank floors. In all, ten stories, exclusive of the main floor and two mezzanines, tower over the sun-swept city. Each floor averages more than 5,000 square feet of floor space.

The structure is re-inforced concrete, fireproof throughout. In the main, the exterior and interior conform to the Georgian period though the modern touch marks it as another depicting American Large-Structure type of design.

The base is of gray granite and the balance of exterior finished with limestone. Above the high windows, are carved stone facsimiles of United States coins—indian heads, buffaloes and eagles. The doors

(*Turn to page* 128)



A bank interior of impressive yet kindly dignity is this one. Above, the excellent arrangement of working and public spaces is evident



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And Now *the* Woman Builder!

The Story of California's Sole Woman Representative in the Field

¶Twelve years ago, when Mrs. Perego found herself a widow with a baby to provide for, she took up her husband's profession with wonderful results as told here.

EARLY in 1913 a California woman sat in her San Francisco home and faced a problem so formidable as to terrify a less sturdy soul. A fatherless little one to support and no immediate means of livelihood—these were the facts that she faced.

Mrs. Grace Perego was the woman. An attractive, distinguished-looking widow who was not afraid to countenance the situation. She had been married when quite young and consequently had no business training to turn to at this time.

But her husband had been a builder and the assistance that she had constantly given him now held her in good stead. In selecting building sites, in deciding on designs, in discussing construction details—in a hundred ways she had associated herself with his work and now she turned to building as a logical way out.

Had she been able to start in a big way, her success would not have been so phenomenal; her capital, however, was extremely limited. Nevertheless, she paid $12,000 for a lot on the outskirts of San Francisco on which she erected a home following old floor plans found among her late husband's effects. The plans were good and many times over she used them without change, save for new exterior designs to prevent any possible monotony.

Remember, Mrs. Perego was not an architect in the definite sense but she had that which is the essential in the architect—an artistic sense coupled with full realization of what is practical. What she lacked in a technical way she made up in accuracy and astuteness in reproducing clever designs she came across. Her aim was always to make the exterior of the two flat dwellings, in which she specialized, look like that of a single family dwelling.



The woman builder in another role. During the war she added to her domestic duties the task of managing a ranch outside San Francisco

She fought on for three years, building in the suburbs of San Francisco, until in 1916 she had accumulated sufficient capital and courage to enter the down town district. There she built brick apartment houses.

About the time the first two were ready for sale the World War loomed up and the traffic in real estate took a turn for the worse. Feeling that the war would be of long duration and her principal inadequate to meet heavy mortgages and low rent, she traded her equity for a small ranch on the outside of the city. She knew nothing of country real estate but going ahead with the



THE erection of a $150,000 apartment house is a job to tax the ability of any seasoned builder. These are the La Grace Apartments, built by Mrs. Perego, on a site obtained by wrecking an old mansion worth many thousands of dollars. This was not her most elaborate achievement but, in her opinion, it was the most interesting of all

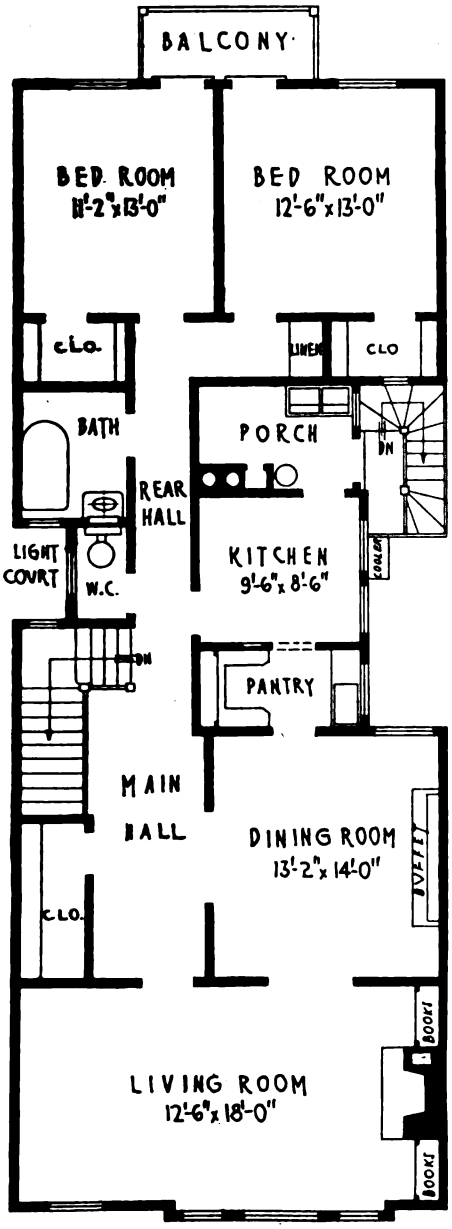
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same strength of purpose and using her accumulated knowledge, she bought and sold several ranches with good success. Moreover, as it was impossible to obtain help during that period, she donned overalls and filled the place of a foreman. All this she did in addition to her domestic duties.

The ranches proved profitable and when conditions returned to normal, she returned to the building field far better equipped than she had been in 1913. The first few buildings with which she was identified were automobile sales rooms and the like. Within another year she again began to build apartments.



By changing the fronts slightly for variety, Mrs. Perego was able to use the same plan over and over again. Here her ingenuity made up for technical knowledge. Later, her accumulated knowledge suggested new designs



THIS plan was the means of starting one woman in the building profession. It had been used successfully by her husband in the erection of many houses and Mrs. Perego put it into service again by simply altering the fronts to avoid monotony

Her largest venture is a 78 room building illustrated. And probably her most interesting building project was that of wrecking the old Dingee Mansion. This land mark dated back to the early days of San Francisco and contained rooms depicting many nations. One room was shipped intact from Japan; another a Moorish room, incrusted with jewels and silver and built at a cost of $50,000. From the wreck of this pretentious dwelling rose four large apartment houses.

SIMILAR sites scattered all over San Francisco stand as tributes to the building enterprise of this ambitious woman builder.

The achievement which gives her the greatest satisfaction, according to her own statement, is the success of the Home Builders Association. In 1921 when San Francisco was in the throes of a serious strike the builders decided that something must be done if their business was to be kept intact. They called a mass meeting and elected as temporary secretary, Mrs. Perego. When the emergency had been taken care of it was the general opinion that the organization should be disbanded. Their secretary, however, thought differently and through her untiring efforts the association has kept together and today represents one of the strongest organizations in the West. Its membership includes over 90% of the builders of San Francisco and the wonderful work it is doing for the building industry is common knowledge among those acquainted with western building work.

It stands out preeminently to those who appreciate the enterprise of Mrs. Perego that she achieved success in her chosen field by the same policies that she is steadily putting forth through the medium of association publicity. They are, concisely, good building practice, building cost economy, and promotion.

These concrete apartments represent the largest single project in the career of this woman builder. The structure comprises a total of 78 rooms



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ITALIAN architecture finds full play in this little home gem. The floor plan below indicates the design specially drawn with the needs of practical housekeeping in mind. Four bedrooms and maid's room provide ample accommodations for the large family. The plans shown here are reversed.



From Sand Dunes to a Magic City

(*Continued from page* 87)

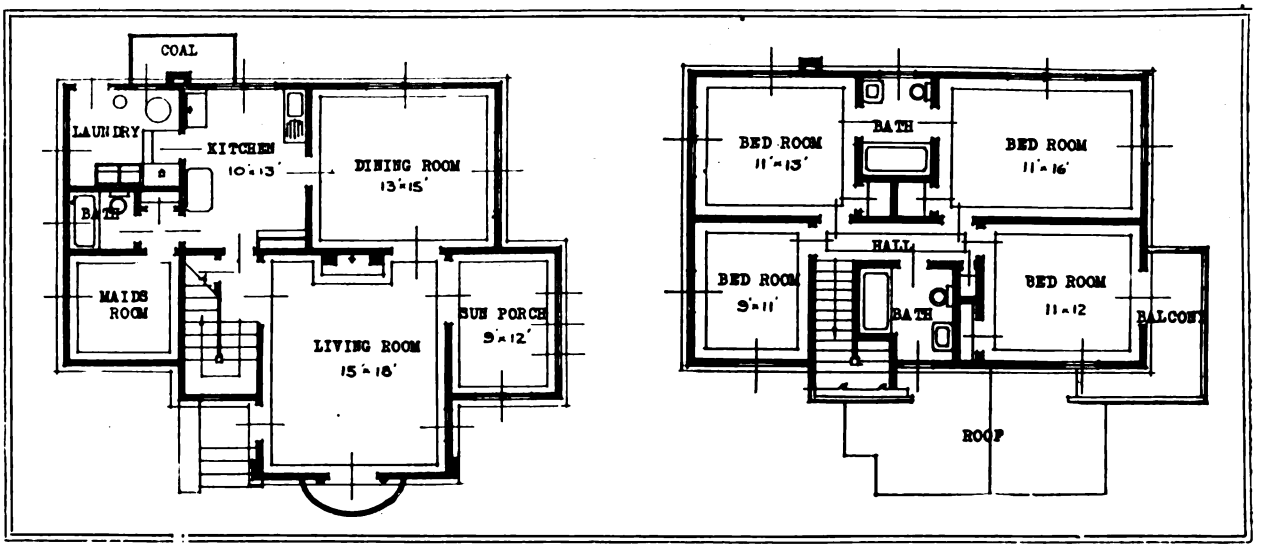
at Marven Gardens. The homes, therefore, are excellent examples of the adaptation of architectural skill plus the use of modern advertised products that have become well known to prospective home owners.

Many builders are realizing that advertised building products are a big aid in selling a house. Prospective owners like to find these materials and appliance in a house that they are going to buy. They know something about them.

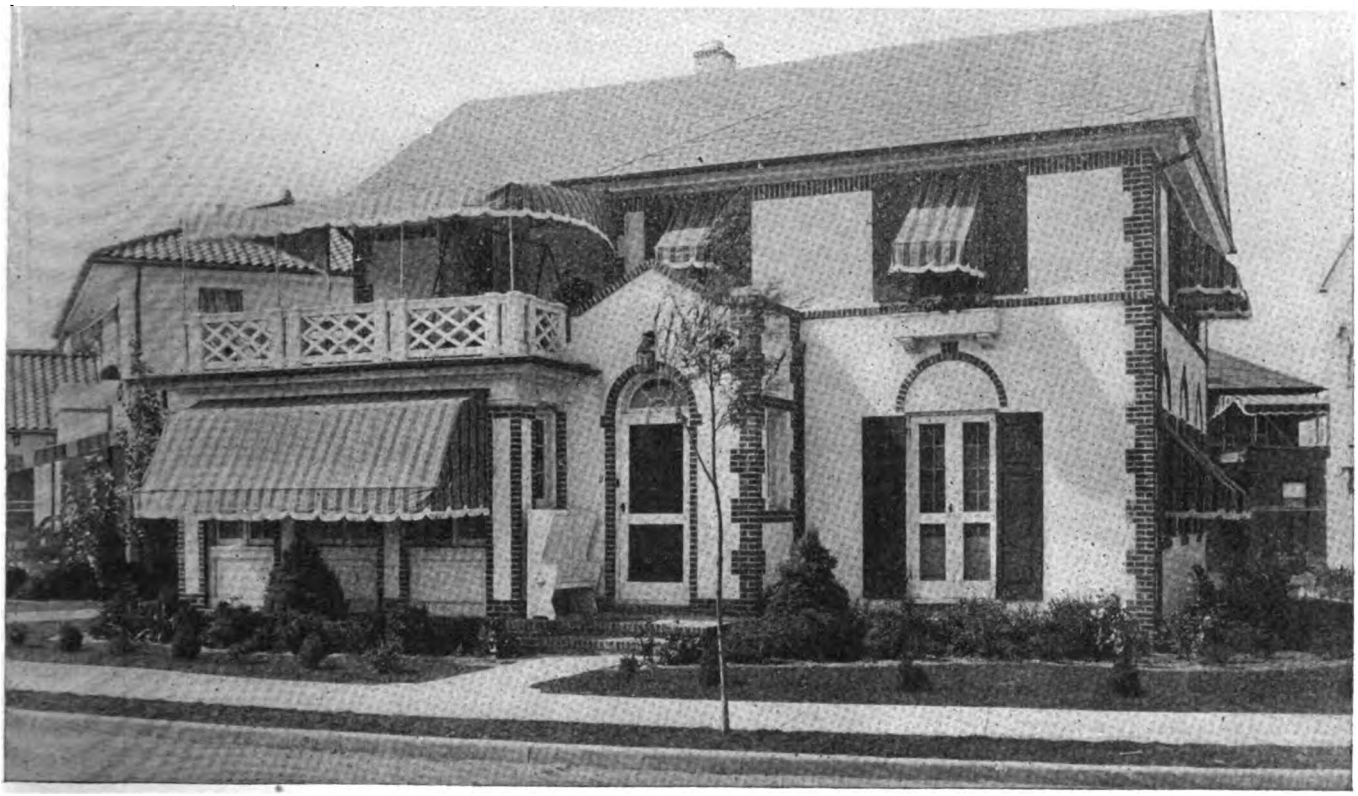
That this is so is amply proved by the rapid sale of the buildings at Marven Gardens. No glowing prospectus or large space newspaper publicity was necessary to put over the merits of these quality built homes. The material was there and an intelligent and discriminating public were able to see it and carefully weigh its value.

To aid in selling these houses a rather attractive little office building was erected at one of the entrances to the property on the West Drive, and to catch the eye of transient visitors to Atlantic City an attractive stucco office in Spanish design was erected along the boardwalk where everybody passing by could see.

Besides a knowledge of practical building construction it is necessary to know something about real advertising to put over successfully a proposition of such magnitude as this. Signs were erected at different parts of the city calling attention to the beauty of Marven Gardens and telling how to get there.



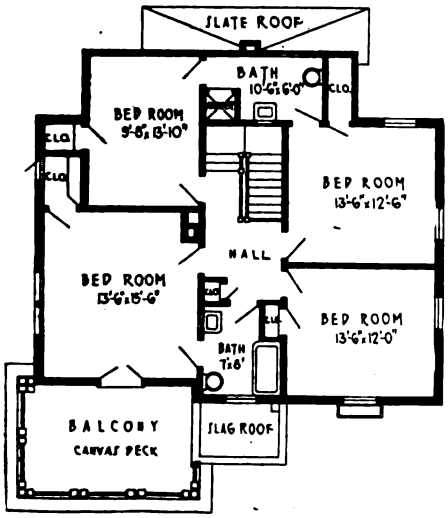
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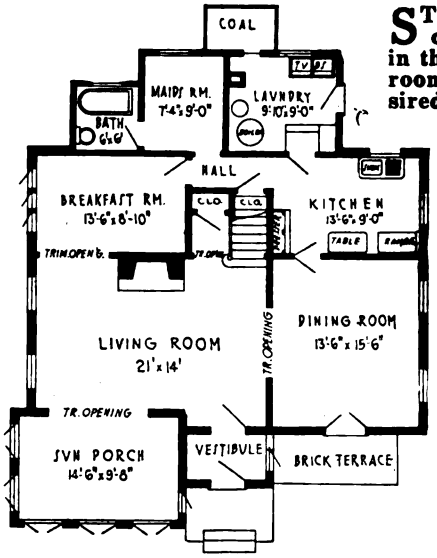


STUCCO with brick trimmings and fancy colored awnings strike a note of beauty in this somewhat unusual home design. The room arrangement leaves nothing to be desired in the way of comforts.

The idea of the furnished sample house was carried out in perfection to the last detail. The lawn and shrubbery were carefully kept as a perfect setting for the house, the walks clean, and a colored door man in livery ushered each visitor within in a dignified way; here they were greeted by a salesman who would tactfully find out the type of house that the visitor was after and he would then conduct the visitors to one of the unfurnished houses that was ready or a house that would meet their requirements that was under construction.

Here the salesman would be able





to show and explain to the visitors just what went into the construction of the house, dwelling carefully on each well advertised product and saying, "This house contains the celebrated plumbing that you see so universally advertised." "Here is the famous range that is so well advertised." "In the construction of our house we put in the best that the market can afford," etc.

The electric wiring was, of course, an important item in such up-to-date houses many convenience outlets being provided for various lamps and appliances. Switches were provided for practically all ceiling fixtures and for some of the side lights as well. All supplies and fixtures were obtained from L. L. Jones Co., of Atlantic City, the electrical contractors on the job who made the complete installation.

The BX and Conduit used was furnished by the Sprague Electric Works. The switches used were made by the General Electric Co., of Schenectady and Bryant Electric Company of Bridgeport, Conn.

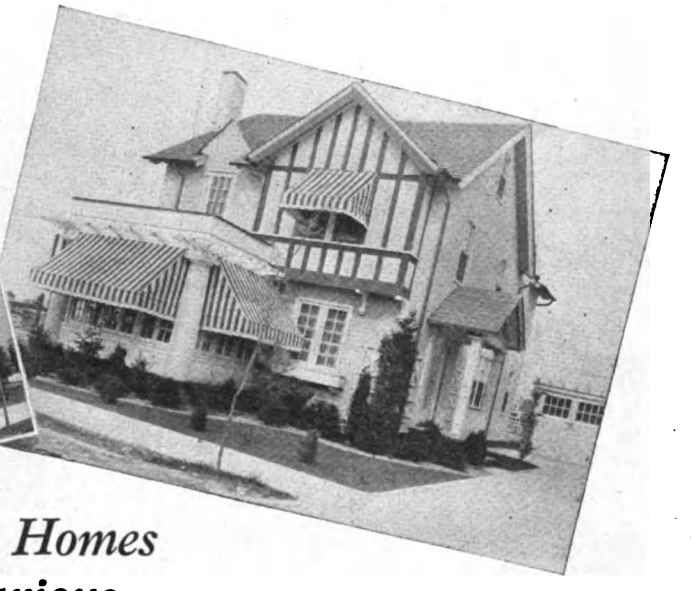
The outlet plates for attachment plugs, switches, etc., were made by P. F. Gaynor, Albany, N. Y. The meters were installed in Noark Meter Cabinets made by Johns Pratt Co., Hartford, Conn.

The fixtures used were obtained from various fixture manufacturers to suit the individual taste of purchasers.

Other special lines of work were sublet to various firms. The plumbing work was installed by John H. Moore & Sons. The painting material was obtained from M. Soltz. Mason and stucco work was sublet to Scull Bros., and R. F. Widmann attended to the roofing work. All are of Atlantic City.

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Artistic Homes In Various Architectural Styles

THE Dutch Colonial type of house is quite popular in Marven Gardens. Here brick, shingles, slate and stucco columns combine to form an unusually attractive design.

MERRY England and its domestic architecture has not been overlooked in designs for this colony of all nations in the up-to-date Village by the Sea.



DARK grey stucco with white trim and ultra-marine blue glazed tile roof strikes an unusual note in this Spanish design. Being the highest building, its glistening blue roof can be seen from afar.

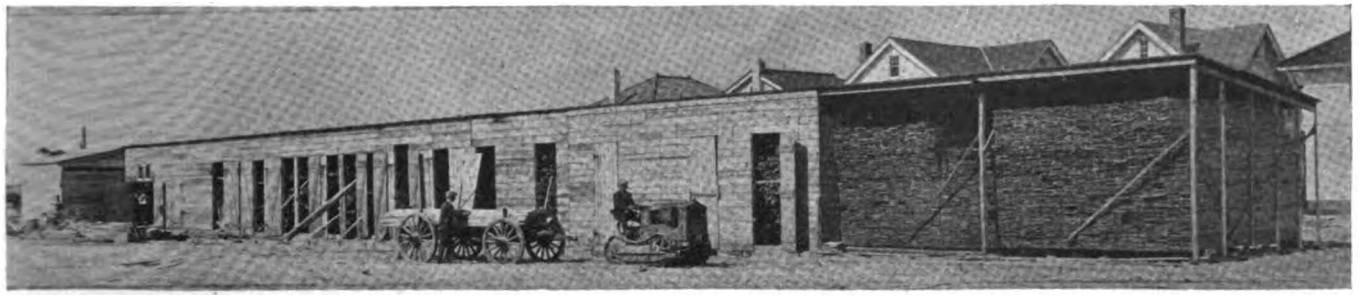
THE staid New England Colonial also finds many places to fit charmingly into the ensemble of beautiful homes. Here pure white with green trimmings wins.

FAIR Italy has also lent its charming touches to this unusual development. Many of the houses follow Italian motifs as has the one pictured below.





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Much material is necessary for the completion of such a large operation. Here is the lumber storage shed, and a tractor is used to haul the lumber, etc., to location where it is needed.

As most of the buildings are only two stories high, no special structural difficulties were incurred in their erection. Equipment of the field shop, however, was quite interesting. The installation of the temporary mill is a piece of field equipment that will interest builders greatly.

A temporary shop structure of wood was built to house the different machines and in this was constructed the various outside doors, frames, complete windows, all of the trim, etc. In other words, it was a complete planing mill right "on the job." The interior doors, however, were bought, these being supplied by the Morgan Co.

The 115 houses being erected made it worth while to install such a model shop even though it is only temporary.

Equipment consists of an upright molder made by L. Power & Co., of Philadelphia and the band saw used was made by the same firm. A jointer and saw made by the Hutchinson Co., of Norristown, Pa. Every machine has its own individual Westinghouse motor. A large measure of credit is due to Mr. Joseph Seidell, the foreman of the mill, for the excellent work turned out.



THE pile driver was easily moved—just simply pried along skids to the desired location. Three men formed the operating crew. Moving and driving took but ten minutes.

Different gangs of workmen were employed under the efficient leadership of Howard Fox, Jack Cush and Ray Fox, carpenter foremen, —and there was just enough friendly rivalry to make the work interesting.

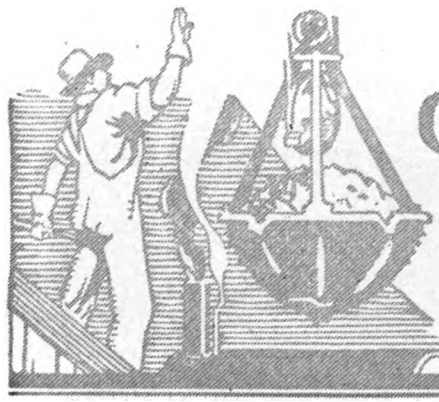
The owners of this remarkable development are Frank J. Pedrick & Son, of Atlantic City. Mr. Leonard Pedrick looking after the construction work of the operation. The superintendent on the job was Mr. Thomas Camp. The architect was Donald Rosenstein of Atlantic City.

Our thanks are due to the kind interest of Mr. Fred Hess, photographer of Atlantic City, for his attention in taking for us the various excellent pictures illustrating this article and on the cover.

A completely equipped mill was one of the features of this unusual operation. In this shop all the special millwork was turned out in first class shape and in quick order.



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CONTRACTING EQUIPMENT

Reliable Information on Time and Labor Saving Devices

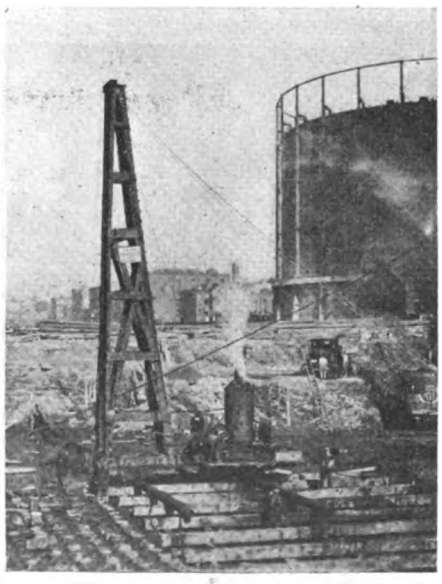
Well Planned Equipment Aids Power Plant Project

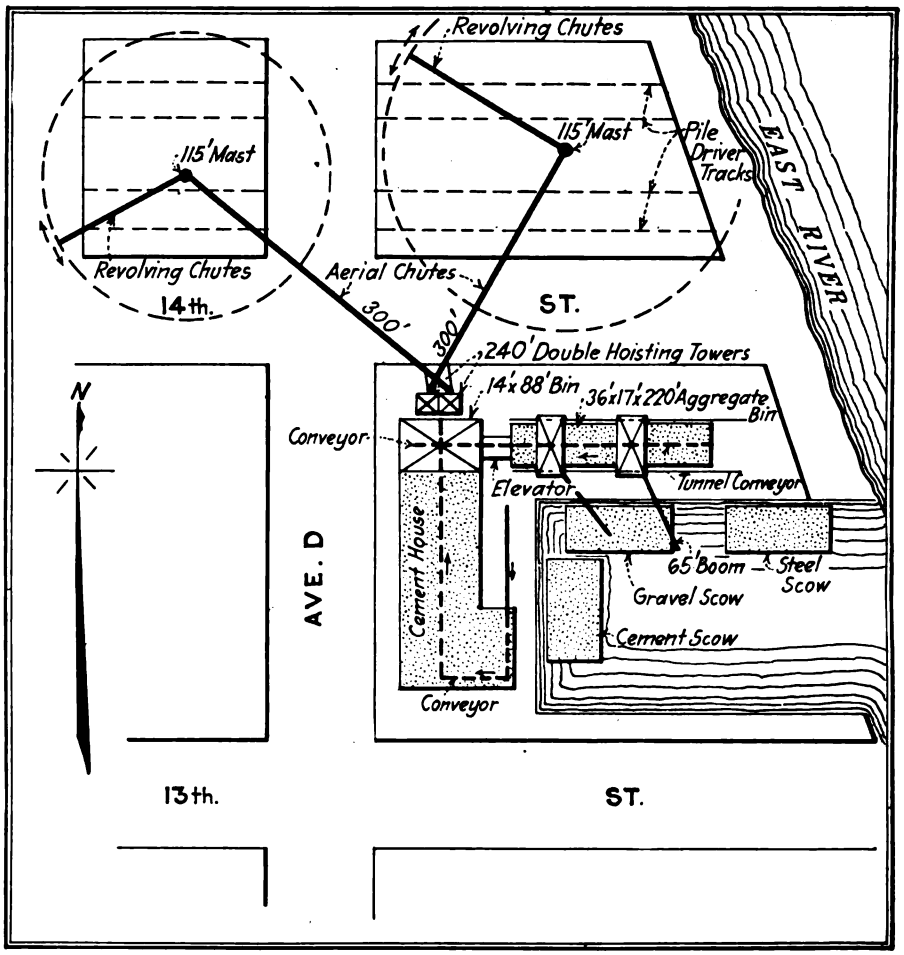
By Frank W. Skinner, C. E.

IN the erection of the new power plant for the New York Edison Company at the foot of East 14th Street, New York, the problems of storing and handling materials assumed immense proportions. Some idea of the extent of the project is apparent in the $25,000,000 contract awarded to the Ken-Well Contracting Company. Their work included that of erecting and also equipping the engine room, dynamo room, boiler room, electric galleries and condensation water tunnels.

The magnitude of this company's commission involves material quantities all out of proportion to the every day conception of even large construction projects. In the foundation work alone, for example,

A regular pile driver with double acting steam hammer was used to good effect on this job





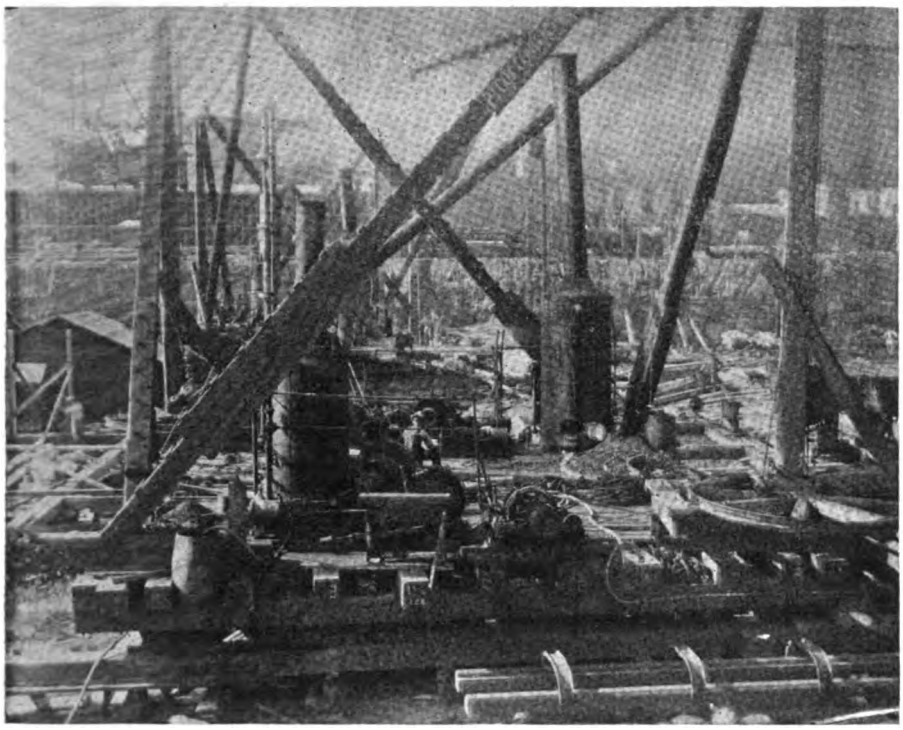
110,000 yards of earth and rock were excavated. This entailed first the work of drainage and then removal of material while at the same time concrete was being poured into the excavated areas.

The concrete used on this job will reach and probably exceed 200,000 yards! When one considers that were this quantity poured all into one huge column 100 feet square—the column would be 540 feet in height or *one tenth of a mile!*

It is no wonder then that no effort or expense was stinted in planning and arranging the material handling equipment.

With this concrete, is being used reinforcing steel weighing, all told, 3,000 tons. In structurally fabri-

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Showing special pile-driving traveller, operating two steam hammers suspended from boom. Traveller is free to move from one end of location to the other

cated form, this tremendous quantity would be enough for many of our large sized steel framed buildings.

In draining the ground preparatory to excavating, surface ditches first served; then, deep channels leading to a special deep sump were cut and from this two 8-inch Kingsford centrifugal pumps, operated electrically, removed the mud and water. Originally the ground was wet and soft. When the draining work was finished it was sufficiently dry and firm to support steam shovels and a fleet of 5-ton Mack trucks.

Over the entire building area the earth was excavated to a depth of 16 feet. This necessitated working two steam shovels in as many lifts. For the condensation water tunnels, trenches were excavated below subgrade. Three Hayward 1-yard clamshell buckets did the work. The tunnel trenches and the vertical faces of the pit were sheeted with about 40,000 square feet of steel sheet piles; these driven by four double-acting McKiernan - Terry steam hammers handled, as in the case of the excavating, by derricks. Following the excavation, pile driving started and all three steps were carried along simultaneously. The number of piles that are going into the work exceeds 18,000, making up a veritable "forest" below the ground.

The foundation piles were 40 feet long, and from 12 to 14 inches thick. Piles of this size driven to a depth of 30 feet represent as large a problem as most contractors care to face. On this job they were driven at a rate sometimes reaching 77 miles per 8-hour shift under the blows of seven steam hammers. And very often 100 blows were needed for the last inch of penetration.

Two of the steam hammers were of the No. 2 Vulcan type; operated in ordinary land pile drivers. The other four were McKiernan-Terry double-action hammers in slings suspended from the booms of two derricks. Through this arrangement much of the speed was due.

THE derricks installed on two wooden travelers were able to move from one end of the site to the other, clearing obstacles with ease; 1,100 piles were often driven from a single position of the traveller.

Mixed aggregate dredged from the north side of Long Island is delivered ready mixed in proportions of two parts sand to four parts gravel. Barges deliver it to a slip near the site where three Blaw-Knox clamshell buckets unload it. This unloading apparatus also includes two Clyde and two Lidgerwood hoisting engines, four derricks on gantry mountings riding astride the bin. The bottom gates of this bin discharge on a tunnel conveyor belt from which the aggregate is carried to a bucket elevator, depositing in a smaller elevated mixer bin. From the bottom of this, aggregate goes to a pair of Butler batchers that measure the required amounts into the charging hoppers instantly and precisely.

Cement is delivered in bags by barges and unloaded to a series of conveyors. These carry it through the full length of the large storage shed to the tops of chutes from which bags can be delivered to either of the two concrete mixers. Cement can be either stored in the shed or delivered to the mixers. When the bags are empty, they run through a mechanical shaker, reclaiming about ½ of 1 per cent. In the handling of hundreds of thousands of bags this economical measure assumes vast importance.

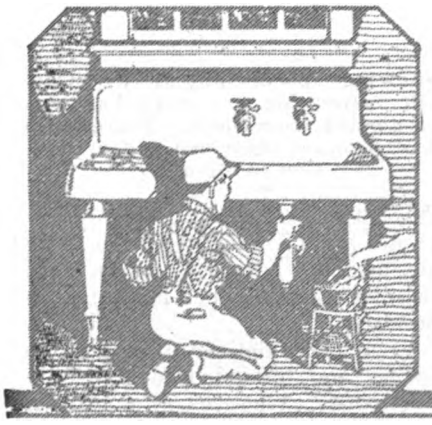
At a point convenient to the aggregate and the cement bins is a twin steel hoisting tower and a concrete platform alongside containing a mixer bin and two Koehring 1-yard mixers and to which water is piped. Operated by electric motors at about 15 r. p. m., they deliver moderately dry concrete through swivel chutes to 1-yard buckets at the bottom of the hoisting tower. The buckets are hoisted in a little over 20 seconds to the top and discharge into hoppers. Two lines of steel chutes run out from here suspended from aerial cable for about 300 feet each.

Two circular hoppers mounted each on the 115-foot mast of an American Hoist and Derrick Company's steel derrick receives the concrete, one from each aerial chute. Two counterbalanced Insley trusses are supported by the mast and derrick booms and terminate in short hand-operated chutes.

As testimonial of the efficiency of this arrangement it need be necessary only to mention that it is a daily occurrence for a small force to handle up to 1000 yards of concrete in a single 8-hour shift.

Briefly the two main buildings of this immense project consist of massive concrete footings 15 feet thick supported on wooden piles from 27 to 30 inches apart. Each building is to be 130 feet high x 370 feet long x 210 feet wide. The construction of these two is representative of all the work going on in this power project. It represents the best in plant layout.

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PLUMBING
Modern Methods and Equipment

Effective Area *of* Water Pipes

By J. N. McDonald

THE effective area of water pipe is, of course, the inside diameter, and other conditions being equal, the pipe with the smoothest inside surface will conduct the largest volume of water.

No protective coating in commercial use permanently protects iron or steel from rust, so that even under the most favorable conditions iron and steel pipe have but a limited life. In time they rust to destruction, meanwhile clogging with rust deposits and finally delivering only a thin trickle of rust-colored water.

Brass pipe cannot rust and is, consequently, never choked with rust deposits.

The illustration emphasizes what soon happens to corrodible pipe. To counteract the clogging by rust it is common practice to install iron or steel pipe of a larger capacity than needed. This practice increases the life of the pipe by allowing for the clogging and postponing the time when rust will have reduced the inside diameter to a point where the pipe conducts insufficient water for the purpose. Brass pipe, on the other hand, does not form rust to decrease the effective area, and it is, therefore, not necessary to install larger sizes than those actually required.

Hot water is more corrosive than cold water because it liberates oxygen more readily. Thus, if a 1-inch standard size pipe will deliver the required amount of water, this size may be installed if brass pipe is used. If, however, iron or steel pipe is used, it is necessary to allow for the rusting and clogging, and good plumbing practice indicates that a 1½-inch pipe should be installed to take care of this condition.

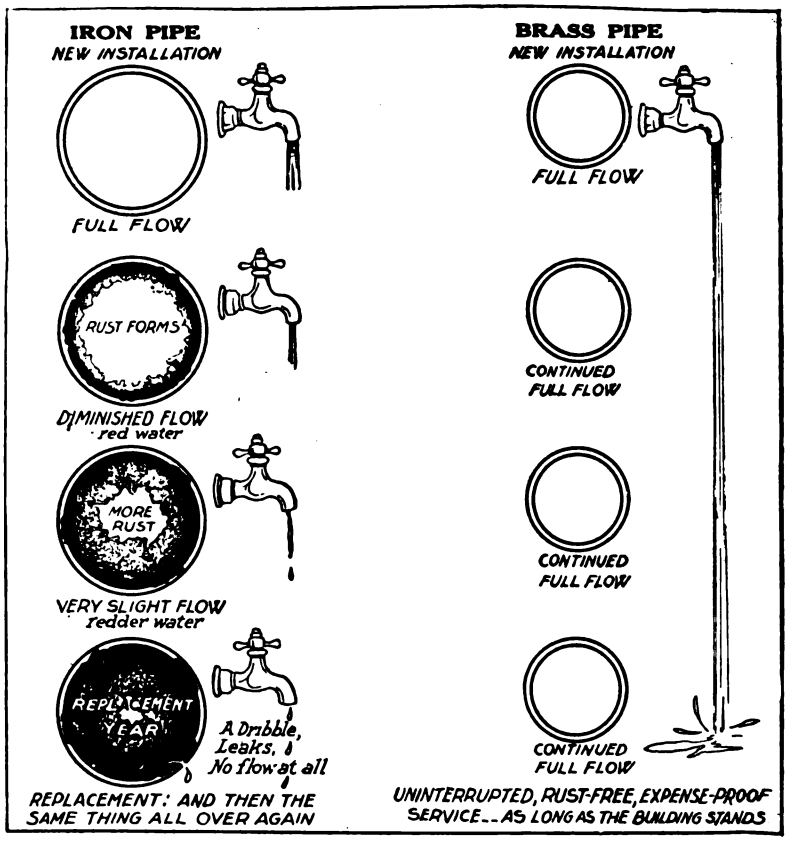
On this basis, the slightly higher cost size for size of brass pipe over iron or steel pipe is considerably reduced as smaller sizes in brass can be used.

In branch lines, both hot and cold, ⅜ inch brass pipe will do the work of ½ inch iron.

A prominent Sanitary Engineer has stated that when 1/27th of the thickness of the wall of a 1½ inch wrought iron pipe is corroded, the pipe is completely closed, and a one-inch iron pipe is completely choked when 1/40th of its thickness is converted into flow restricting rust.

This corrosion, which is particularly acute in the hot water supply lines, not only stops delivery of water at the fixtures, but also eats away the pipe wall to such an extent that in many instances within a few years leaks appear and the pipe must be renewed at considerable expense, especially if walls and floor must be torn up to get at the pipe.

On the other hand, brass pipe de-



On the one hand is a cross section of iron pipe, depicting the accumulation of rust until flow is stopped completely. Contrasting with this is brass pipe unaffected by rust and delivering freely

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livers year after year a full flow of water as clear and pure as it comes from the carefully guarded city main.

Sanitary engineers and the plumbing profession generally are taking cognizance of these facts and realize the inefficiency of steel and iron pipe for water distribution.

But while the ultimate economy of brass pipe is generally recognized, the dollars-and-cents argument frequently intervenes to nullify the plumbing contractor's efforts to persuade the owner to use brass. The graphic chart illustrated may aid him in his efforts to provide the owner with the best in the long run.

To the extremely forceful brass pipe selling arguments of long life, permanently rust-free water supply, and freedom from repair costs, it is possible to add the compelling argument of almost no appreciable difference in the initial cost of brass as compared with iron pipe.

The following table lists the smaller sizes of brass pipe which may be used in comparison with larger sizes of iron or steel pipe:

Mains and Risers
In Hot Water Lines

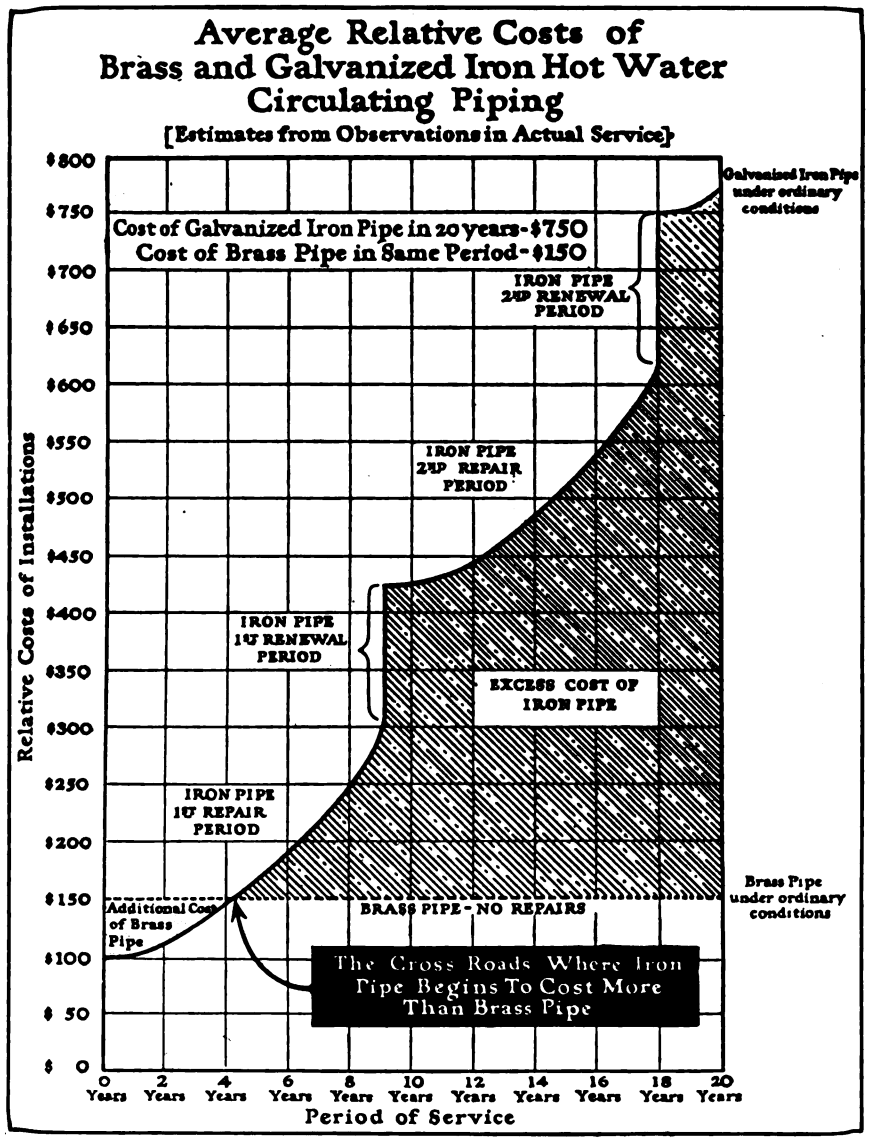
Diameter Brass Pipe Does Work of	Diameter Iron Pipe
½ in.	¾ in.
½	1
¾	1¼
1	1½
1½	2½
2	3

In Cold Water Lines

Diameter Brass Pipe Does Work of	Diameter Iron Pipe
½ in.	¾ in.
¾	1
1	1¼
1¼	1½
1½	2
2	2½

Brass pipe installed in the average $15,000 house costs the home-builder only about $60 to $120 more than iron or steel—depending on the quality of iron or steel material with which the comparison is made.

The public has come pretty generally to understand the great serviceability of brass plumbing pipe and how large are the savings it affords the owner by its expense-proof service. Once the public also realizes how small is the difference in first cost between brass and short-lived substitutes, brass pipe will come into universal use, except for buildings of the most temporary character.



While discussing effective areas, it is well to bear in mind that the arrangement of plumbing may react to restrict flow of water even though pipe area is sufficient. Right angle bends are the best examples of this means of retarding supply. True, a 90 degree turn requires only a single fitting but this economy is hardly worth considering when the resultant flow is in danger of proving inadequate. On the other hand, a 45 degree bend decreases the supply only in the slightest. Better plumbing calls for them, reasoning that a life time of better service to be so had justifies small additional cost.

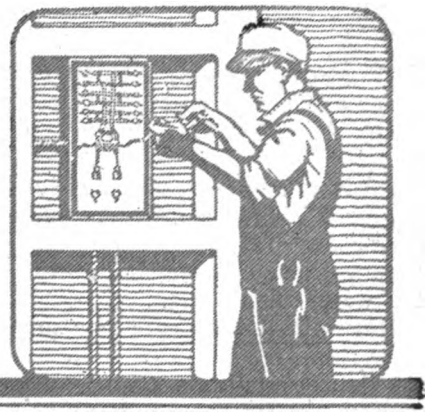
Vertical offsets, too, work materially in cutting down the flow of water. Here the moving water must strike against two obstructions in negotiating the right angle turns. Two 45 degree fittings save not only in eliminating this difficulty by tending to straighten out the line but in quantity of pipe as well. The set back is started earlier in the line than in the case of 90 degree turns.

For further increasing the supply, the entire line must be kept as free of foreign matter as possible. Drains connected at various salient points effect this in a very simple manner. If precautions are taken when the plumbing is installed, immeasurable trouble may be saved later on. For example, where the riser connects with supply line, the plumber should use a "T" and drop a short length below the main line. Then a drain cock may be used whenever an accumulation of dirt occurs.

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ELECTRICAL WORK

Wiring-Fixtures-Devices for Lighting and Power



Ventilating the Kitchen

By Thomas L. Kennedy

PULL the cord and hot, unpleasant kitchen fumes go sailing out-of-doors. Pull the cord a second time and an abundance of cool, refreshing air fills the kitchen. Ventilation-via-Wire, it is called, and the description is apt for the convenience and comforts it provides. Briefly, the system comprises a slow speed fan hung in a metal frame. The frame is adjustable to any window or special opening and does not interfere with it opening or closing. Merely hook the device in place, plug into the nearest outlet, and the ventilating system is ready for operation.

The multifold advantages of such an arrangement need not be extolled for the benefit of the housewife. In the list of electrical conveniences, it finds an important place in the opinion of those who spend many hours in the kitchen.

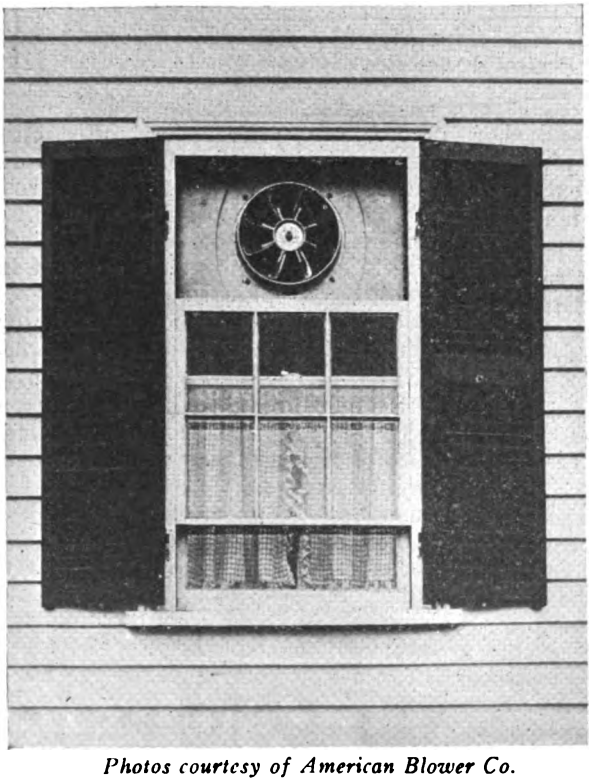
From the builder's point of view, proper ventilating devices in the new house fit in notably with the several electrical appliances that make for greater marketability. As a means of enriching the value of the home in the mind of the prospect, household appliances have taken a foremost position. Every enterprising builder realizes that on the woman's estimate of the home, depends to a very great extent, the outcome of the transaction. And it is in those little convenience features that she will be most interested. Too often, perhaps, the most finely constructed house in a suburban development will remain unsold merely because it does not involve enough attention-getting devices to entice buyers.

In the kitchen, particularly, does the feminine prospect take into account every little detail that promises added comfort. To-day, she has been educated to a high degree of convenience while new developments are constantly being offered to keep step with her requirements.

During the summer months she will be most cordially interested in appliances to provide cooler working conditions. This suction-blower fan exerts its strongest appeal just now although its merits are not limited to summer operation. In cold weather, its exhausting operation does much to improve household working conditions.

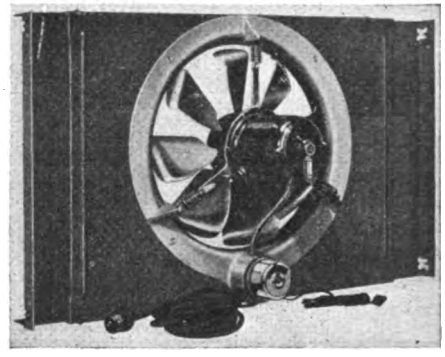
The entire apparatus because of the extreme simplicity of construction is marketed at a cost within the reach of all. The speculative builder, in particular will find the first cost justified, and, often times, repaid many times over in more ready realization on his houses.

Even in cases where the fan is not provided by the builder he should install the necessary outlet for one so that it can be readily attached—it is just another builder convenience that helps sell the house.



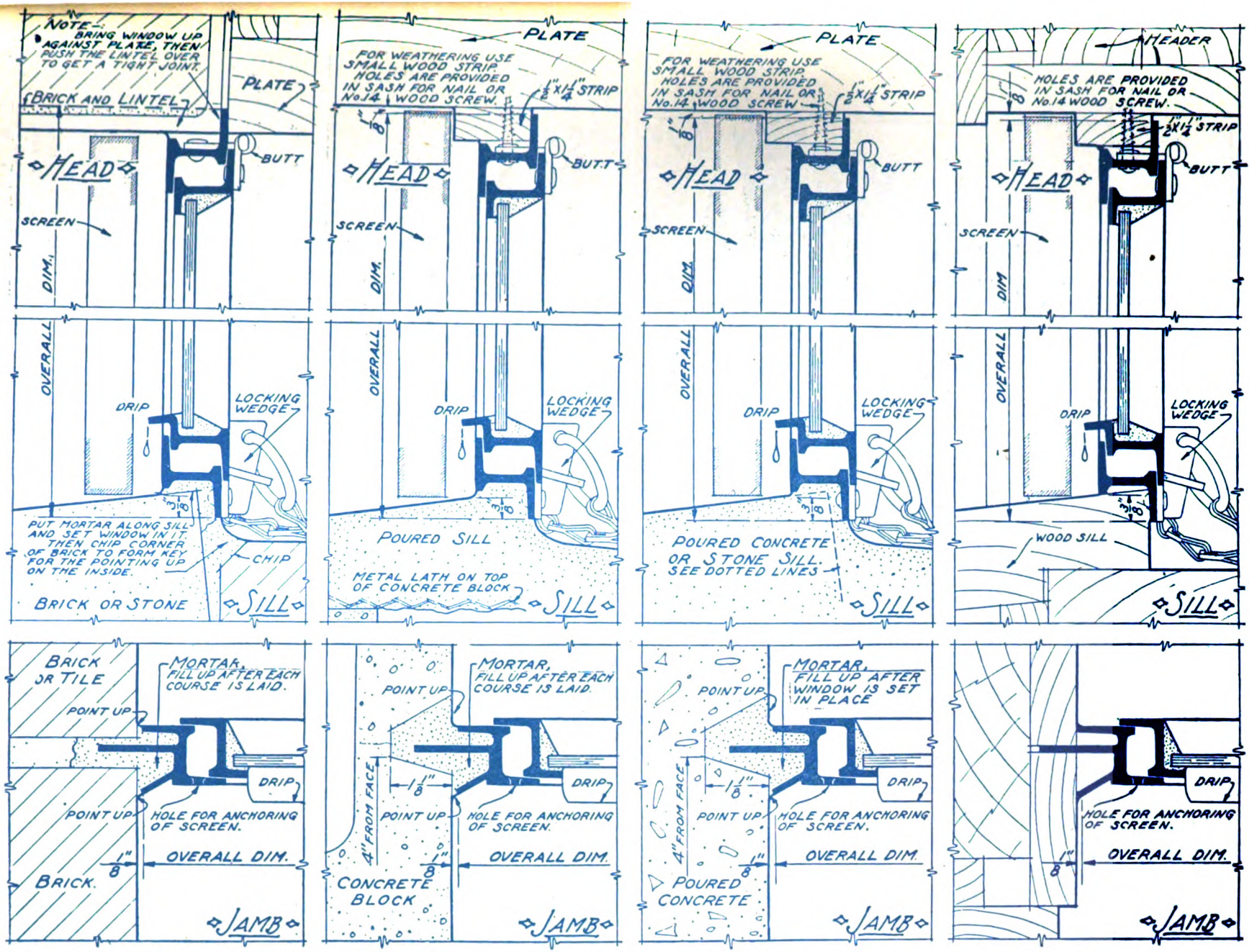
Photos courtesy of American Blower Co.

THE mere opening of a window does not clear the kitchen of hot, cooking gases. Here is shown a means of supplementing the work of passing breezes



The reversing type fan—revolving one way it exhausts to the outside; the other, it sends fresh air into the close, uncomfortable house

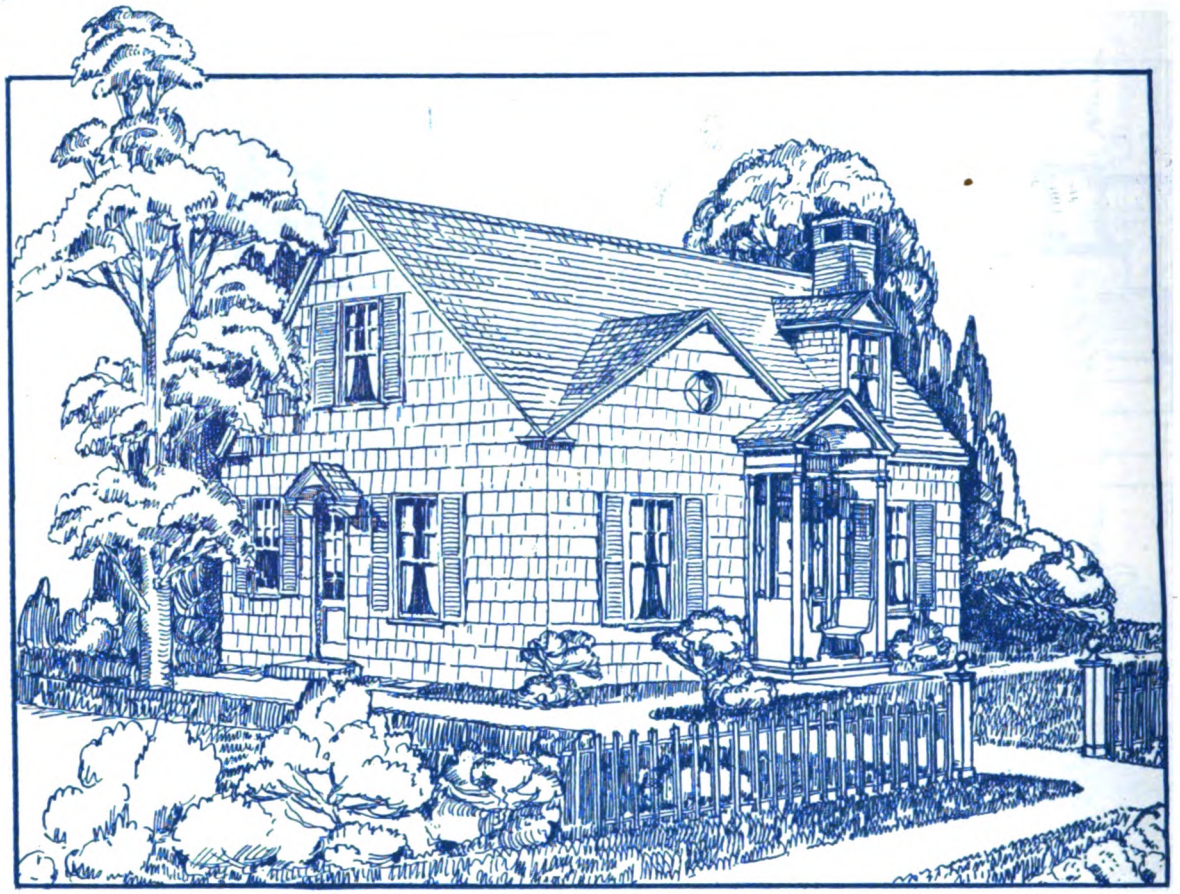
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Details of Steel Cellar Windows

Drawn by Staff of Detroit Steel Products Co.

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A Simple Colonial Cottage

The Plans in Blue Print Drawn Specially for Building Age and National Builder

THE demure charm inherent in the Colonial style makes twice-attractive this house of shingles. Simple and tidy in its lines, its modest adornments blending well with their background, the design makes a pleasant picture of comfort joined with good taste.

The exterior features reflect their Colonial derivation. The neat little entrance porch, with its slender wood columns and side seats, is characteristic of the days of our ancestors. So, too, is the dormer at the right, which balances well the gable and porch.

A study of the plans shows their compactness and, despite the modest size of the house, has capacity in the way of sleeping accommodations. On the first floor are a living room, dining alcove, enclosed porch, well-equipped kitchen, and a bedroom. The living room has a good-sized fireplace with windows, flanked by bookcases, on either side.

The second floor, very simply laid out, has a central stair, around which are grouped three bedrooms and a bath. Ample closet room is provided in each bedroom and a linen closet in hall.

Outline of Specifications

EXTERIOR walls to be of shingles, on frame construction. Chimney of face brick. Entrance platforms of common brick.

INTERIOR FINISH of living room and dining alcove also enclosed porch plastered rough textured and tinted. Bedrooms papered enamelled trim. Kitchen walls hung with washable wall covering. Bathroom walls above tiled wainscoting and also ceiling, painted and enamelled. Basement floor painted gray.

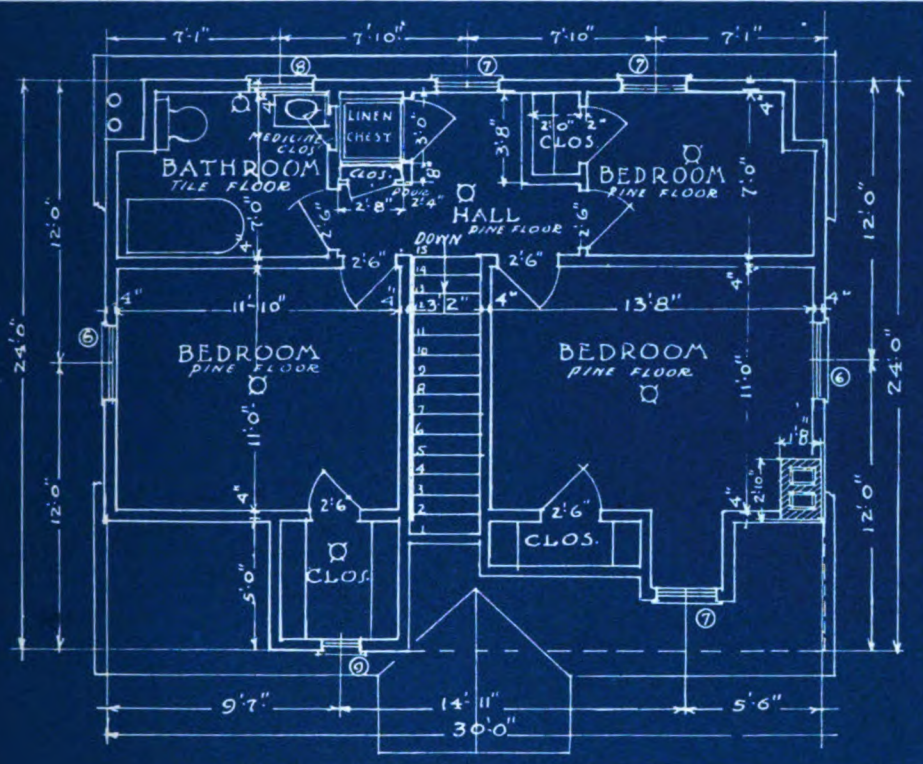
WINDOWS to be of wood with French casements for first floor as plan indicates. Cellar windows of steel.

HEATING to be hot water, steam or warm air, thermostatically controlled from upstairs rooms.

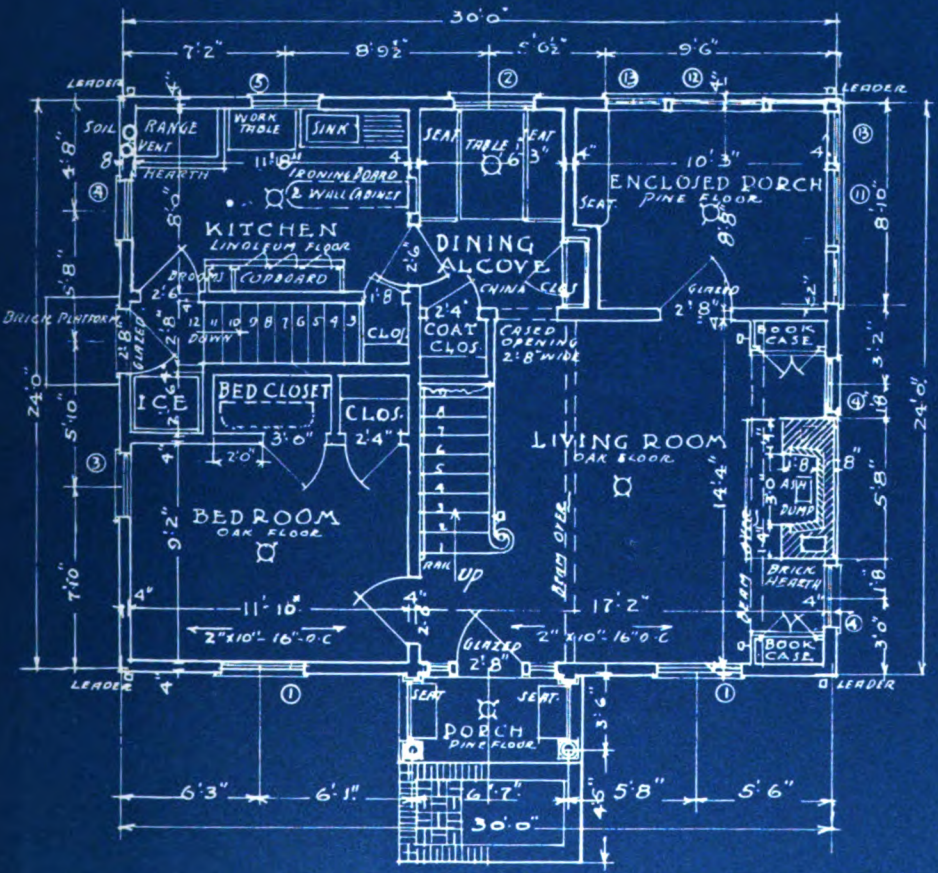
ROOF to be covered with shingles, either wood or composition, slate or asbestos. Leaders: rectangular of zinc, copper or galvanized iron.

PLUMBING to include enamelled iron sink, lavatory and bath tub; porcelain closet and soapstone wash tub. Vent and drain pipes; cast iron. Water pipes; brass.

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SECOND FLOOR.
SCALE 1/4" 1'-0"

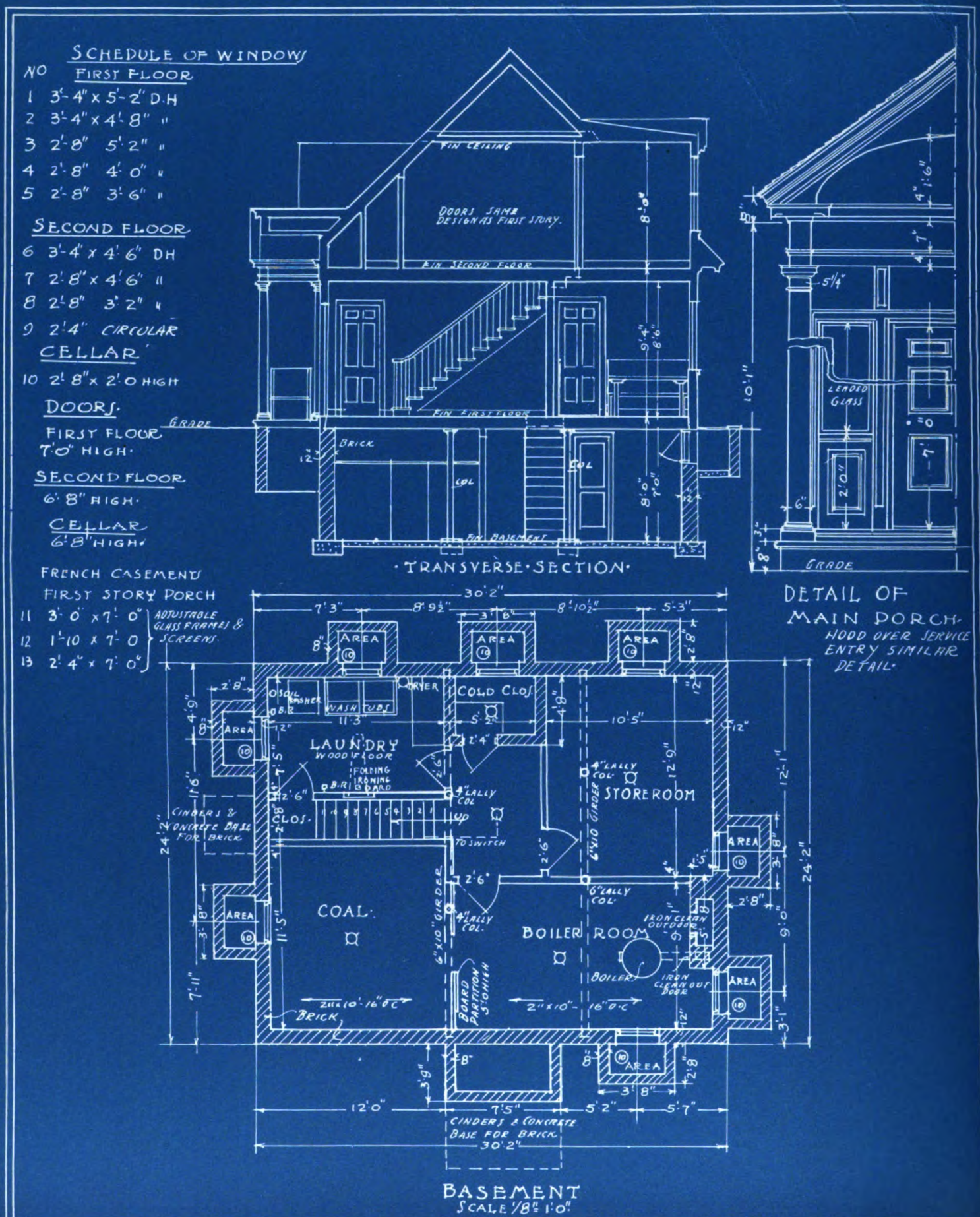


FIRST FLOOR.
SCALE 1/4" 1'-0"

BUILDING AGE AND NATIONAL BUILDER
WORKING DRAWINGS

Designed by William Sanger

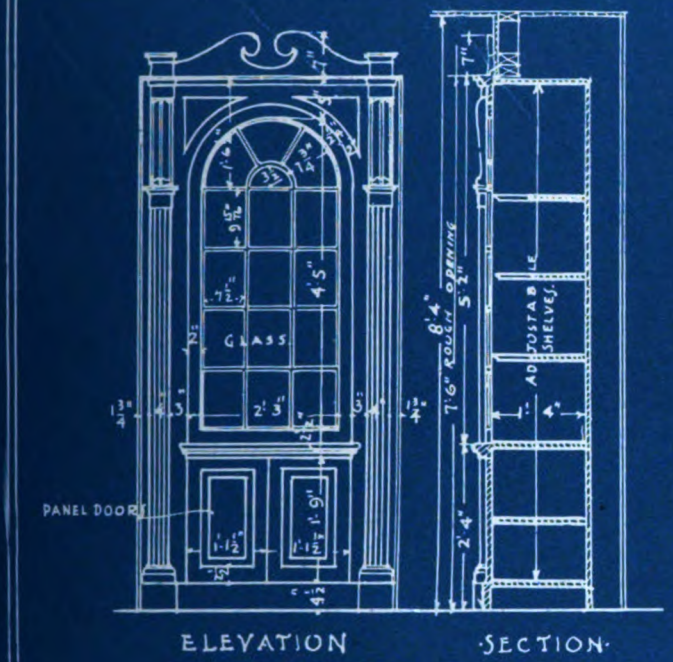
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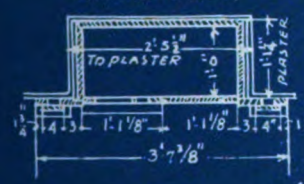


BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS

Designed by William Sanger

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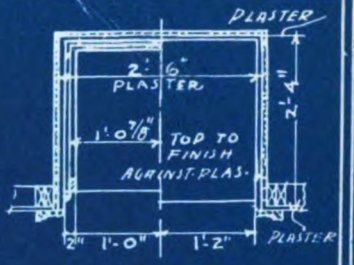




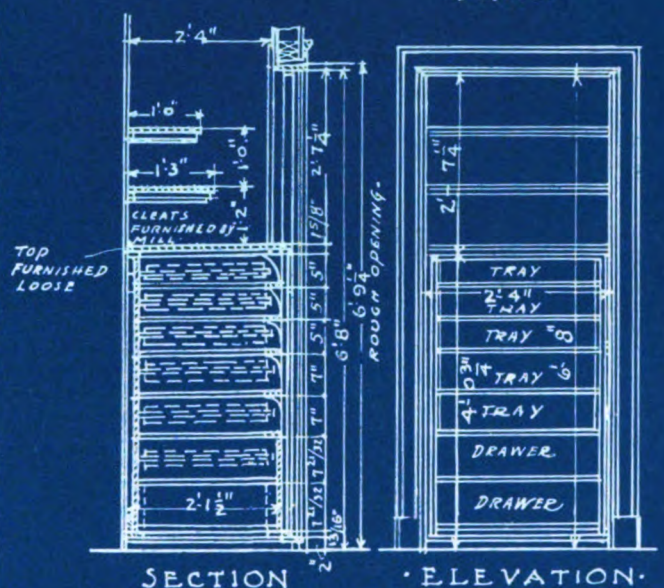
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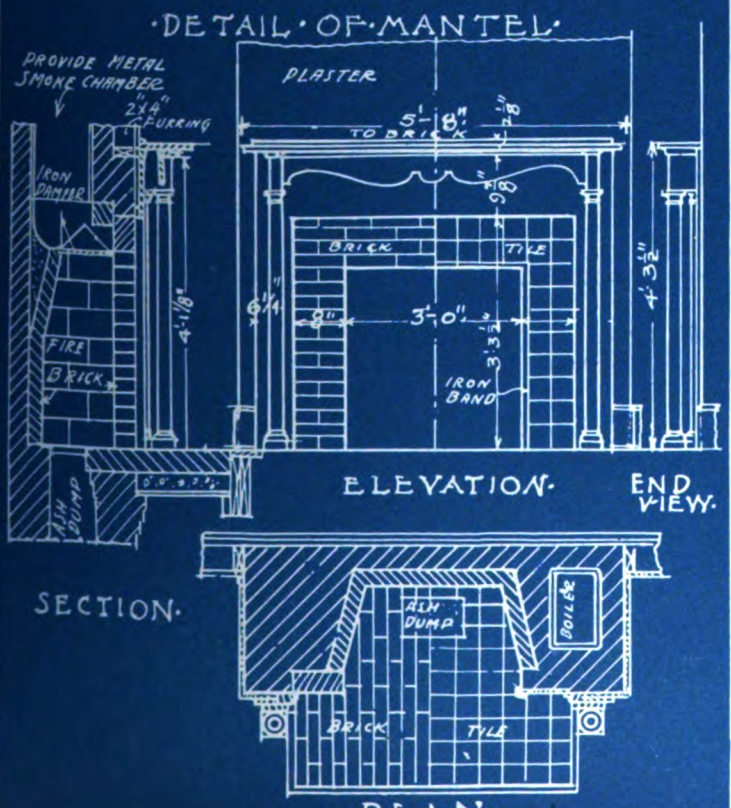
TRIM & DOOR NOT INCLUDED·

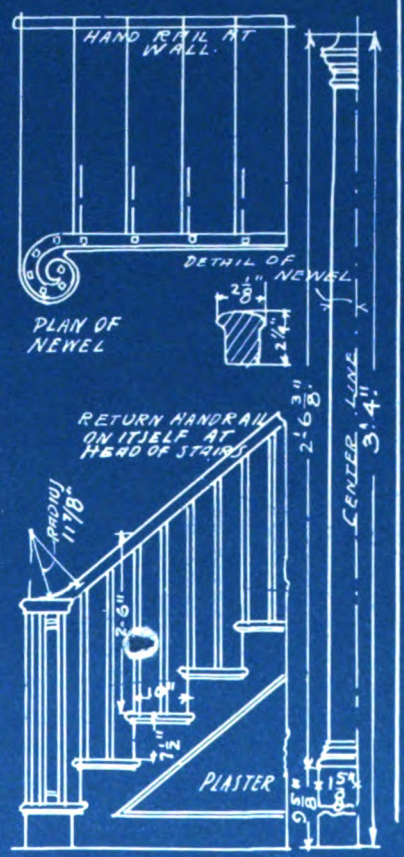


·PLAN·

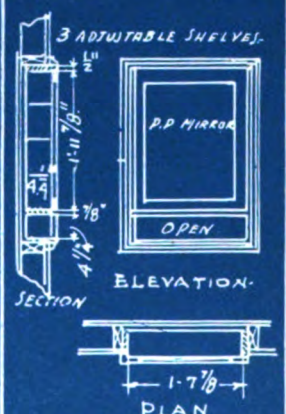


·DETAIL·OF·MANTEL·



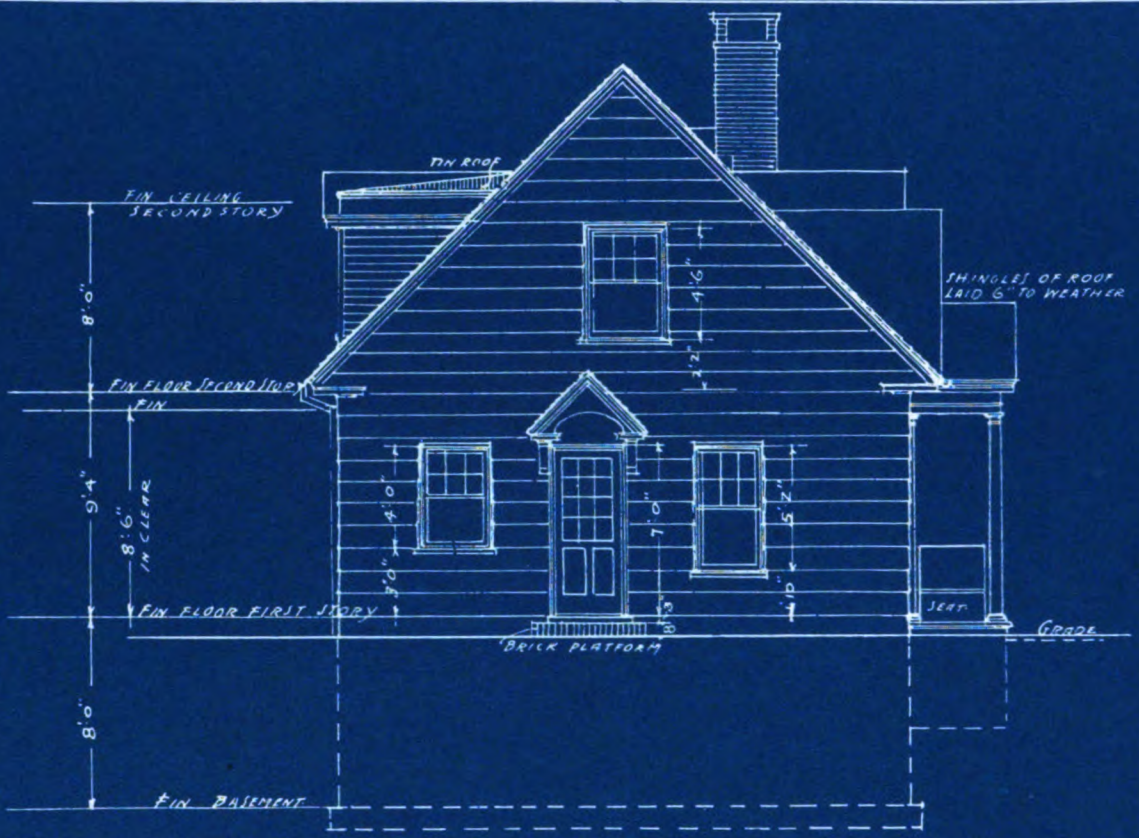


DETAIL OF MAIN STAIRS·

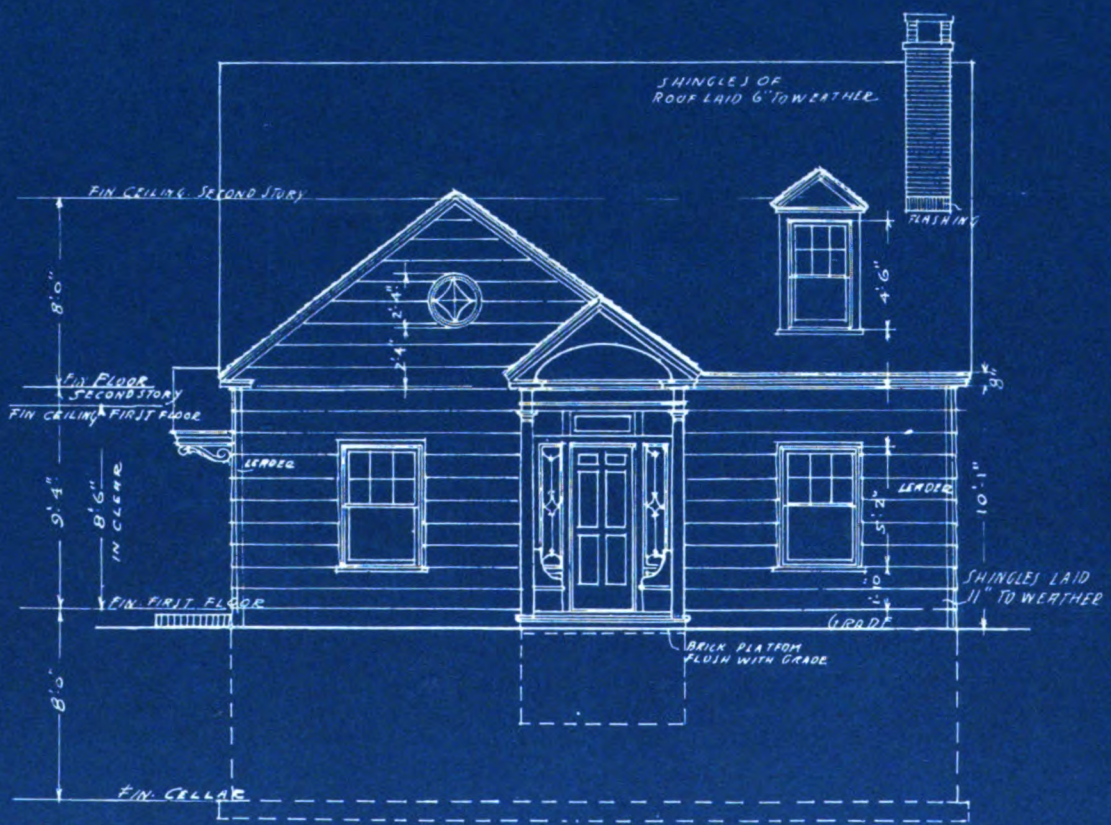


DETAIL OF MEDICINE CLOSET

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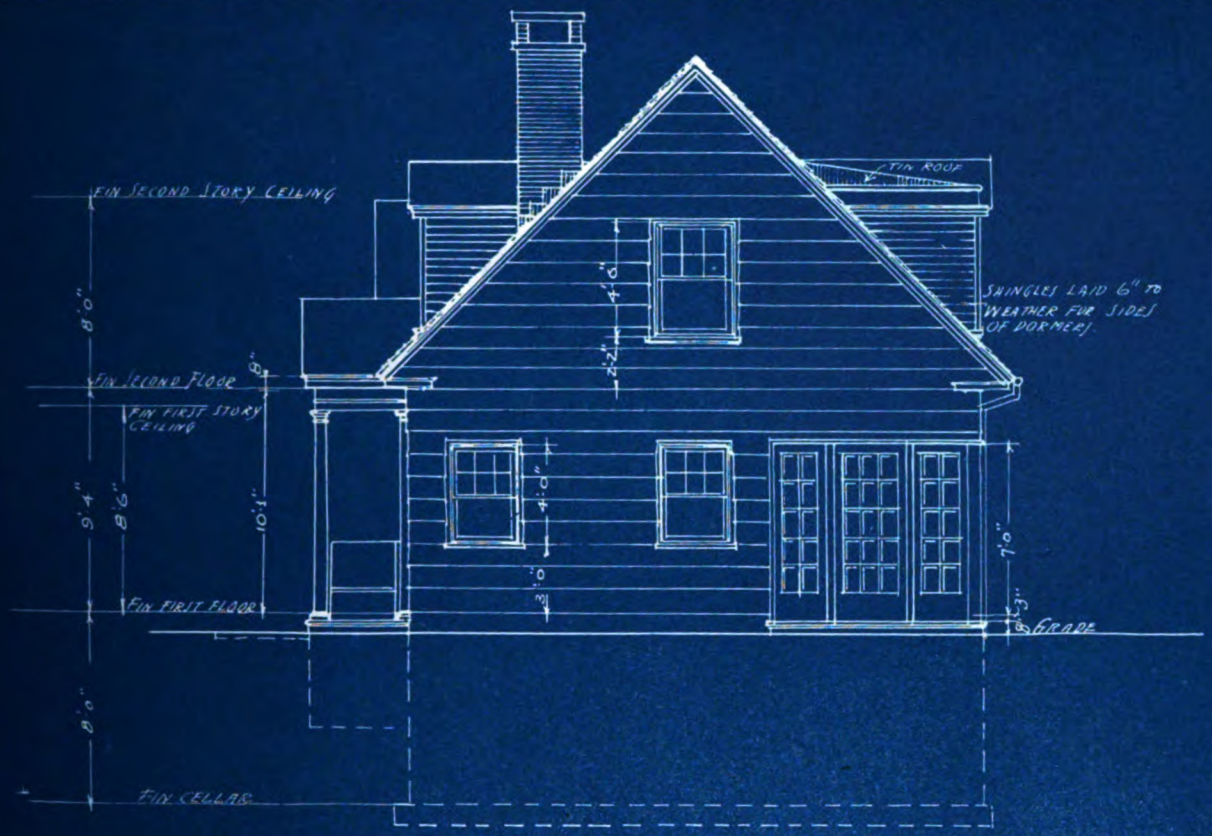


·LEFT·SIDE·ELEVATION·

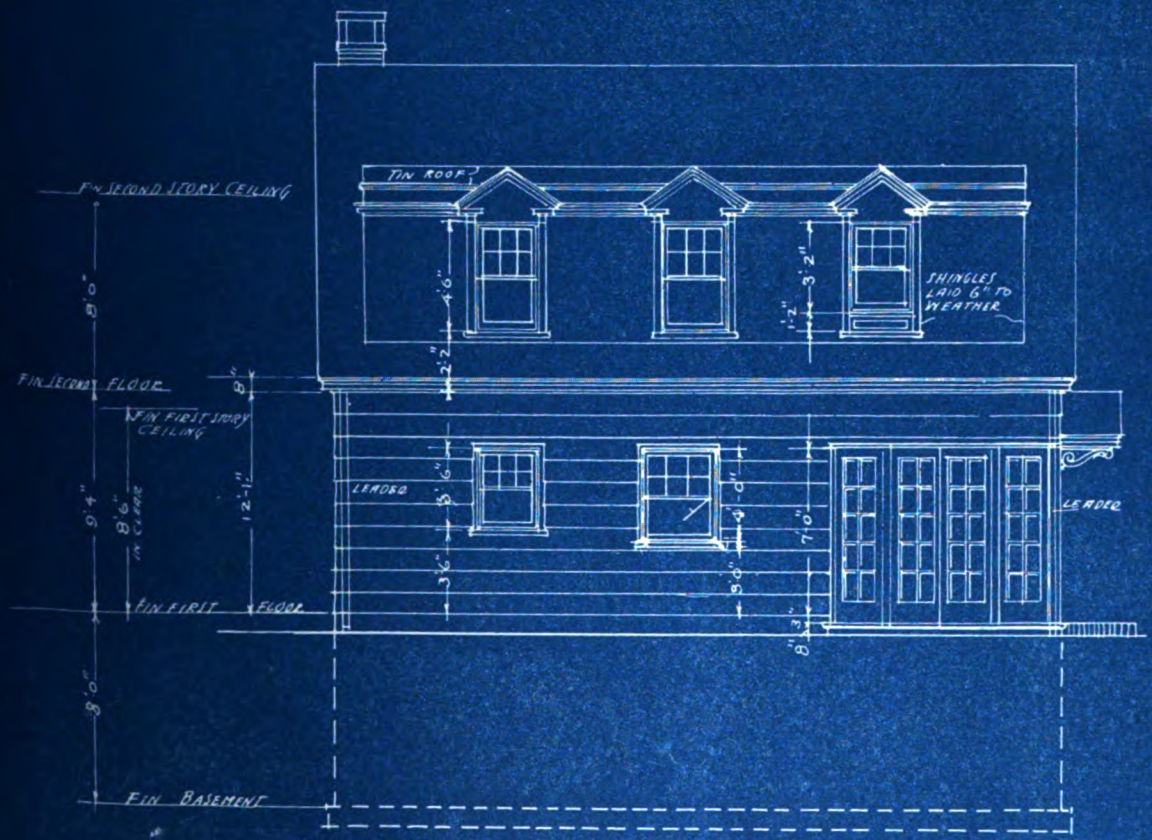


·FRONT·ELEVATION·
SCALE 1/4" 1'0"

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·RIGHT·SIDE·ELEVATION·



·REAR·ELEVATION·
SCALE 1/8" 1'0"

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Quantity Survey of Materials

Prepared by Walter J. Fradgley

For the Simple Colonial Cottage

EXCAVATION

Basement (two feet larger than wall measurement)	216 Cu. yds.
Areas, trenches, & pier footings	31 Cu. yds.
Back fill around foundation & footings	40 Cu. yds.

MASONRY & IRON WORK

Concrete footings	315 Cu. yds.
Brick foundation walls	19,320 Brick
Face brick for chimney	450 Brick
Common brick, chimney & fireplace	1,568 Brick
Concrete basement & area floors 3″ base and ¾″ topping	692 Sq. ft.
Paving brick—entrance platforms	355 Brick
Face brick—fireplace and hearth	180 Brick
Fire brick for fireplace	168 Brick
Flue lining 8″ x 12″	56 Lin. ft.
Cast iron cleanout door & frame	1 Piece
Ash pit door & frame	1 Piece
Ash dump for fireplace	1 Piece
Fireplace damper	1 Piece
Anchor bolts for wall plates	30 Pieces
Thimbles	1 Piece
4″ Lally columns, base & caps included	4 Pieces

PLASTERING

Gypsum plaster on all interior walls & ceilings, 1st & 2d floors	654 Sq. yds.

CARPENTRY

2 x 8	Wall plates	133 Bd. ft.
2 x 10	Floor joist, 1st and 2nd floors	1,800 Bd. ft.
1 x 6	Ribbons	24 Bd. ft.
2 x 4	Ceiling joist, 2nd floor	320 Bd. ft.
2 x 4	Roof rafters	667 Bd. ft.
2 x 4	Exterior studs & plates	1,440 Bd. ft.
2 x 4	Interior studs & plates	1,600 Bd. ft.
2 x 6	Hip & valley rafters	32 Bd. ft.
1 x 6	D & M Rough flooring	1,670 Bd. ft.
	Floor paper under finished floors	14 Squares
1 x 6	Roof boards	1,875 Bd. ft.
2¼″	Face finished floors	1,856 Bd. ft.
1 x 8	Shiplap sheathing	2,660 Bd. ft.
	Roofing	16 Squares
8″	Lap siding	2,275 Bd. ft.
	Furring & grounds	225 Bd. ft.
	Waterproof paper over sheathing	22 Squares
1 x 6	Under gutter	80 Bd. ft.
1 x 10	Eave soffit & gable projections	150 Bd. ft.
	Basement partitions—2 x 4 studs and sheathing	817 Bd. ft.
1 x 3	Crown mould for eave & gable projections	180 Lin. ft.
	Entrance porch columns, caps and bases	2 Pieces
	Seats—entrance porch	2 Pieces
	Side entrance canopy & brackets complete	1 Piece

STAIRS

1st Floor to basement	1 Flight
1st Floor to 2nd floor	1 Flight

PAINTING

Exterior woodwork	32 Squares
Interior woodwork	25 Squares
Finished floors	14 Squares

SHEET METAL

Gutters	56 Lin. ft.
Downspouts	40 Lin. ft.
Elbows	8 Pieces
Chimney flashing	12 Lin. ft.
Metal deck	162 Sq. ft.
Valley flashing	32 Lin. ft.

TILE WORK

Tile floor in bathroom	63 Sq. ft.
Tile wainscoting	170 Sq. ft.

HARDWARE

4 x 4	Exterior door butts	8½ Pairs
	Exterior door lock sets	4 Sets
3½ x 3½	Interior door butts	17 Pairs
	Interior door lock sets	17 Sets
	Double acting door hinges	1 Set
	Door bumpers	18 Pieces
	Coat hooks	6 Doz.
2½ x 2	Butts	12 Pairs
	Cupboard catches	10 Pieces
	Elbow catches	3 Sets
	Book case locks	3 Sets
	Drawer pulls	3 Pieces
	Basement door hardware	5 Sets
	Basement sash hardware	8 Sets
	Window sash locks	15 Sets
	Window sash lifts	15 Pieces
	Window sash pulleys	60 Pieces

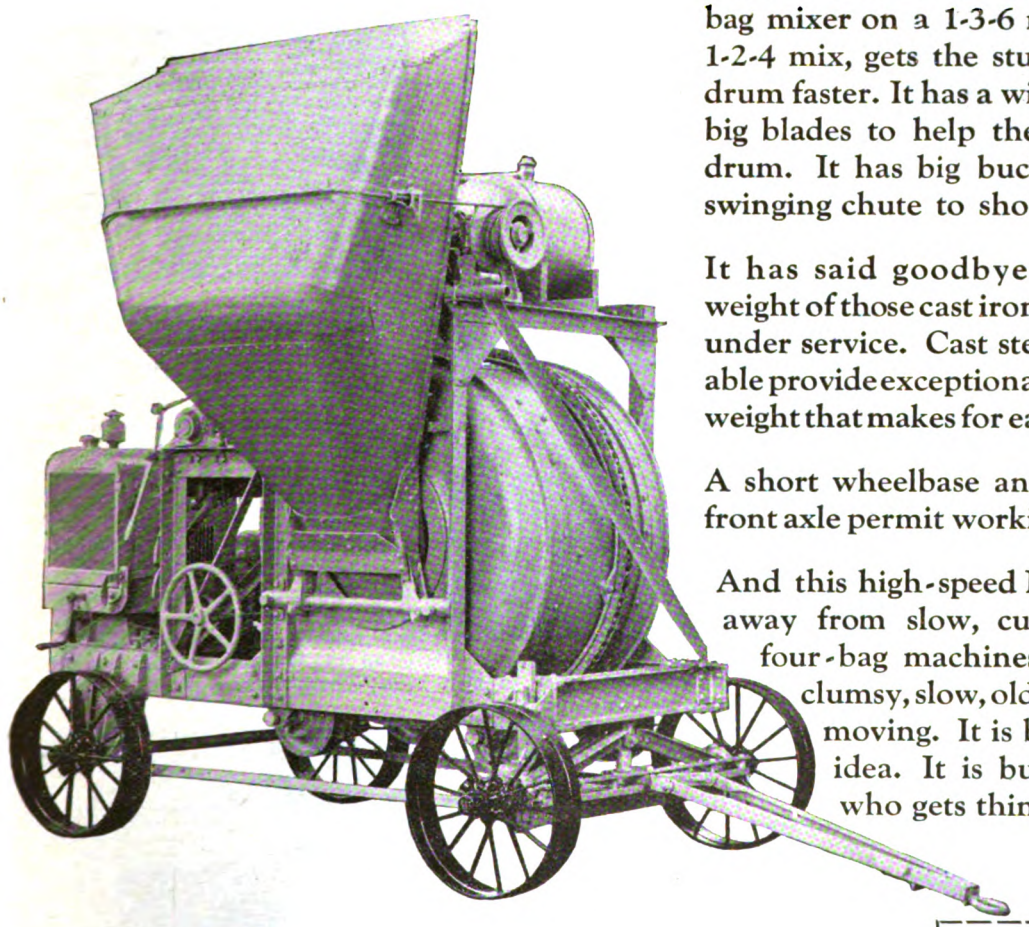
MILL WORK

Closet shelving	24 Lin. ft.
Chair rail,—kitchen and bath	36 Lin. ft.
Hook strip	40 Lin. ft.
Base & quarter round	365 Lin. ft.
Picture mould	240 Lin. ft.
Seat	1 Piece
Mantel and shelf for fireplace	1 Piece
Medicine cabinet	1 Piece
Ironing board	1 Piece
Dining alcove, table & seats	3 Pieces
China closets	1 Piece
Book cases	2 Pieces
Linen closet	1 Piece
Beam ceiling	30 Lin. ft.
Exterior entrance door & side light, frame & trim complete	1 Opening
Exterior doors (frames & trim complete)	1 Opening
Interior doors (frames & trim complete)	18 Opening
Cased opening (frames & trim completed)	1 Opening
Porch enclosure sash & frames & trim complete	2 triple openings
Windows (frames & trim completed)	15 Openings
Gable sash & frame complete	1 Opening
Basement sash & frames complete	8 Openings
Basement doors (frames & trim complete)	5 Openings

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The New *High-Speed* 14-S

Applying the Rex High-Speed Idea to a "*Two-to-Three*" Bag Building Mixer



THE Chain Belt Company said the first goodbye to slow, cumbersome old-fashioned mixers with its original high-speed paver. This paver was built without burdensome weight. It got the stuff into and out of the drum faster. It appealed instantly to the contractor who gets things done.

The Rex high-speed idea was then introduced into the small mixer field. Its story there is told by the Rex 234-S and 237-S. In short, the high-speed idea meant more concrete per day and per season. This appealed to the contractor who gets things done.

Now the Rex high-speed idea has been applied to the new Rex 14-S. This new two-bag mixer on a 1-3-6 mix or three-bag on a 1-2-4 mix, gets the stuff into and out of the drum faster. It has a wide intake opening and big blades to help the fast skip charge the drum. It has big buckets and a wide, fast-swinging chute to shorten discharging time.

It has said goodbye to the burdensome weight of those cast iron parts that crack easily under service. Cast steel and certified malleable provide exceptional strength with the light weight that makes for easy moving and placing.

A short wheelbase and an automotive type front axle permit working in the tight corners.

And this high-speed Rex 14-S is taking jobs away from slow, cumbersome three and four-bag machines. It says goodbye to clumsy, slow, old-fashioned mixing and moving. It is built on the high-speed idea. It is built for the contractor who gets things done.

REX MIXERS

CHAIN BELT COMPANY, 723 Park St., Milwaukee, Wis.

CHAIN BELT COMPANY
723 Park Street, Milwaukee, Wis.
Send me 14-S Catalog.

Name .....

Address .....

City ..... State .....

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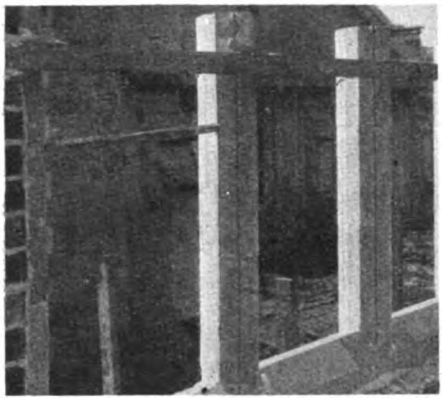
On the Job with the Construction Editor

TO me, modern building methods represent the accumulation of two centuries of builders' ingenuity. In my trips from place to place I come upon many new ideas which I feel are valuable contributions to the general fund of builder knowledge. Here are some very useful short cuts that I found in use "On the Job."

Roy A. Singa.

Holding Mullions

IN work where considerable ornamental stone is used, such as in churches, schools and auditoriums, stone or terra-cotta mullions are often specified. Inasmuch as these mullions are often tall and narrow, it is sometimes difficult to set them plumb.



Gerbich & Hangard, contractors, of Jacksonville, Fla., use the method shown here. A 2x4" is fixed to span the opening and the mullions are tied to it with wire or heavy twine. This furnishes a means of holding them in place so that there will be no danger of their being forced out of plumb.

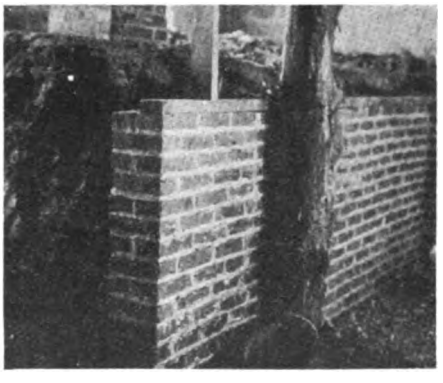
Union for Pipe Tests

IN plumbing, all pipe work is tested after the roughing-in is completed so that any leaks in pipes located in partitions may be attended to before the plaster is put on the wall. Where two pipes come close together at their openings, they may be joined with a union as shown here in order to keep a flow from one to the other. This photograph was made on a job in Rochester, N. Y., the builders being Natt, Bareham and McFarland, of that city.



Retaining Wall In Basement

IN the photograph is shown a condition dealt with by a Nashville, Tenn., builder in a novel manner. The ground was quite solid, and inasmuch as heavy frosts very rarely occur in Nashville, it was not required to go down very deep



with the foundation. In order to provide coal storage and furnace space, a small central part of the basement was excavated and a brick retaining wall 4 in. thick built to hold back soil.

This was found to be much cheaper than running the foundations clear to the basement floor and excavating to the foundation walls. Note that rough timber, taken from the site is used for posts to support the floor girder.

The corner of the wall shown in the photograph is at the point where the opening was placed to permit bringing coal from a window in the foundation wall. It would seem from the picture that the wall was 8 in. thick instead of 4 in., but this 8 in. thickness was used only on each side of the coal opening to provide greater strength and to prevent breaking of the wall.

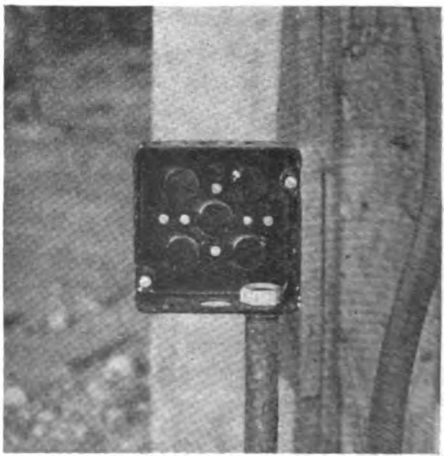
Too Much Corbel

IT is unwise to corbel a chimney as shown here. In the illustration each brick overhangs an inch and a half, which is far too much for safety and stability. Corbeled courses should not be overhung more than three-quarters inch.

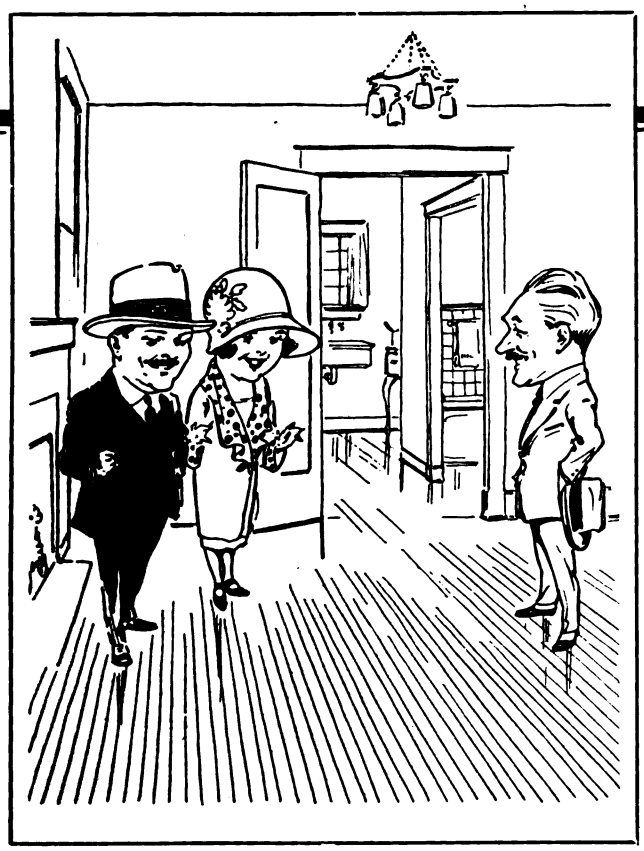


To Prevent Stuffing Of Pipes

IN order to avoid the annoyance of stuffed pipes, this Des Moines, Ia., electrical contractor inserts a small round piece of thin asbestos over the pipe when the box is fastened on. The asbestos disk is held on the pipe by the upper fastening nut. When the men are ready to snake wires through the pipes they simply punch a hole in the disk and push the wire through. The time taken for inserting the asbestos is well repaid when the electricians are able to proceed without interruption.



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Floors Sell Houses

A new and empty house—Floors in their unaccustomed bareness literally fascinate your prospect's eyes.

Nothing makes a stronger impression. Don't show them dull and lifeless floors. Nor don't lead them over a glossy brittle surface that they tread gingerly for fear it will scratch.

Show them the mellow, durable, lustre of

Beautiful Waxed Floors

The only finish modern housewives will accept. Not only because it is beautiful and distinctive, but mainly because of its many practical advantages. Waxed floors do not show scratches, do not collect dust, and are the easiest floors in the world to keep clean. Never any sloppy scrubbing, never any expensive refinishing. Spots of heavy traffic can easily be retouched just as needed.

Waxed floors are the most inexpensive, satisfactory and saleable floors for all classes of construction.

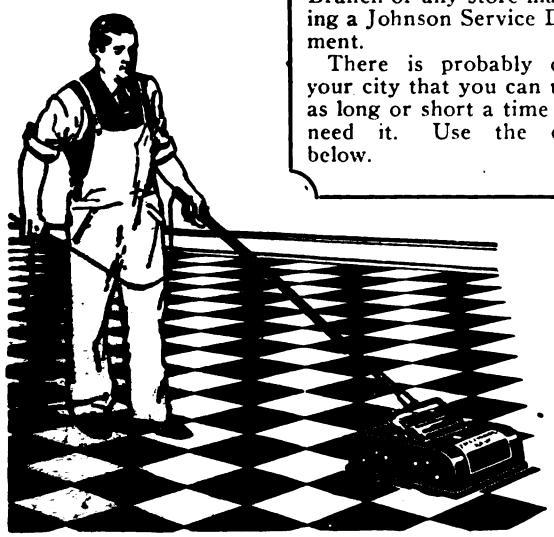
LINOLEUM and similar composition floors literally demand wax as soon as they are laid. Wax, in addition to bringing out all their beauty of color and pattern and giving an easily cleaned surface, is absolutely necessary to seal them against the penetration of dirt and water which soon cause them to disintegrate and rot.

The New Easy Way

The New Johnson Electric Polishing Machine used with Johnson's Liquid Wax and Johnson's Wax Applying Mop has taken all the labor out of floor waxing.

You do not have to buy it. It is available to all users of Johnson's Wax at a very nominal rental at any Johnson Branch or any store maintaining a Johnson Service Department.

There is probably one in your city that you can use for as long or short a time as you need it. Use the coupon below.



S. C. JOHNSON & SON, Dept. B. A. 7,
RACINE, WIS.

"The Wood Finishing Authorities"

We are interested in your service on the new Johnson Electric Polishing machine. Please let us know the nearest one available in this city.

NAME.....

ADDRESS.....

CITY & STATE.....

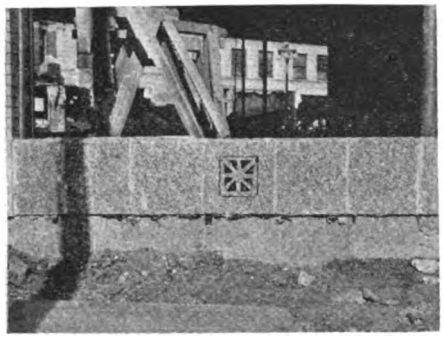
We usually buy such supplies from.....

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On the Job with the Construction Editor

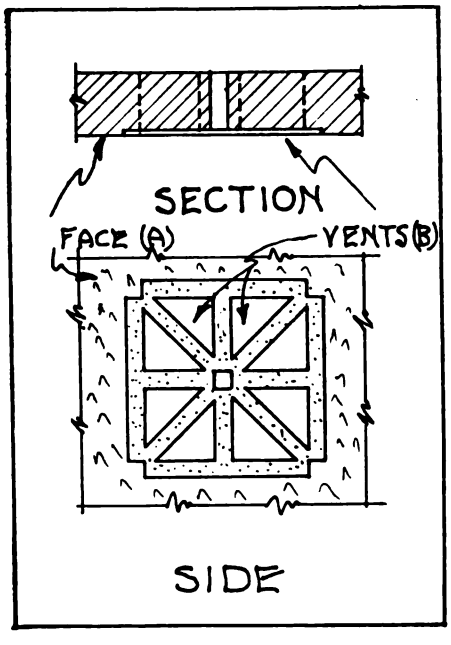
Ventilation for Show Windows

IN the winter time, when the difference in temperature between the inside and the outside of a show window is around 40 or 50 degrees, it sometimes happens that mist collects on the glass, making a clear view of the interior impossible. This is a constant source of



annoyance to merchants who are always anxious to display their wares to best advantage, and they will welcome some way of doing away with this nuisance. Although the method described here may not be an absolute cure in all cases, nevertheless, it will help.

In mild cases, the only thing required to keep the glass clear is ventilation inside the show window. The best practice is to ventilate the window, designing it so that it is isolated by a partition, from the store proper. This will permit the maintenance of a low temperature in the show window without the necessity for lowering the temperature of the store itself. It then becomes necessary only to provide for a clear circulation of fresh air in the window.

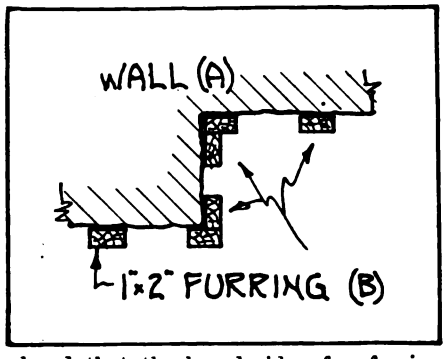


Where terra-cotta or cut stone trim is used for the window bulkhead, the provision may be made as illustrated here. All that is required is to provide vents (B) in the face of the bulkhead (A). This may be done in an ornamental fashion as illustrated. A bit of fine screen set back of the opening will prevent the entrance of dust and debris.

Furring at Corners

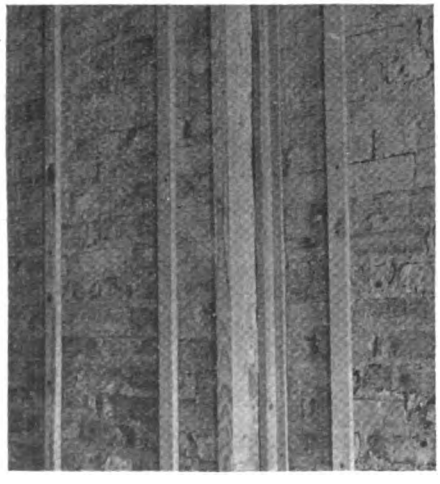
WHILE it is practically impossible to prevent plaster cracks, it is, nevertheless, possible to prevent the occurence of many of them when "roughing in" for the plasterer. Settlement cracks are excusable, but there is little excuse for plaster cracks due to improper furring.

In the illustration shown here is given the proper way to fur a wall corner where both an inside and outside corner exist. Notice that the furring (B) is so



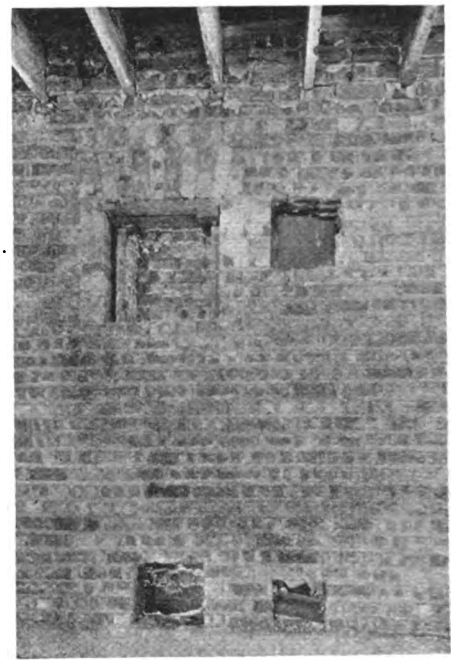
placed that the broad side of a furring strip is available for nailing lath in both directions.

This will also serve to cut down the lather's time as he will be able to work faster when it is not required that he be careful in setting his nails, as would be the case if he had to nail to the edge of a furring strip instead of to the face.



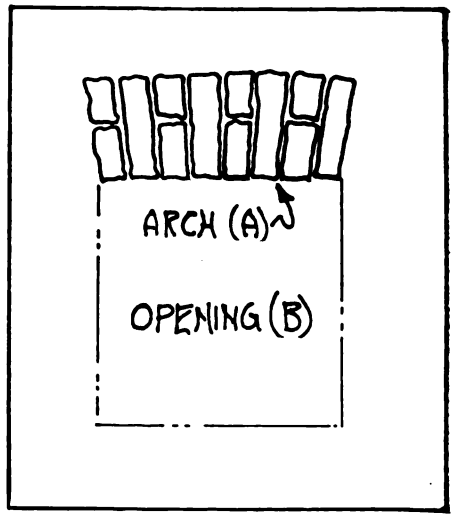
Arch for Chimney Opening

IN small buildings, the problem of providing entrance to the chimney for the boiler breeching is not a serious one, but in large apartments this may give trouble unless carefully attended to. In



the illustration we see how one builder handled it.

Inasmuch as a large opening was required to accommodate the boiler breeching, the chimney wall above the opening was carried on a flat arch, built into the wall. A steel lintel might have been used, but since it would have been subjected to a good deal of heat, it was considered best to build in the flat brick arch as shown in the two illustrations.



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ECONOMY — with the quality of the roof beyond question—is our reason for preferring the Carey Asfaltslate Shingle.

This shingle is made in a big size, 10 by 15¾ inches, which allows a 5 inch exposure and yet produces a three thickness roof. This allows us to make a roof that will protect and stay on, and at the same time not a single needless penny goes into it. We save nails and time.

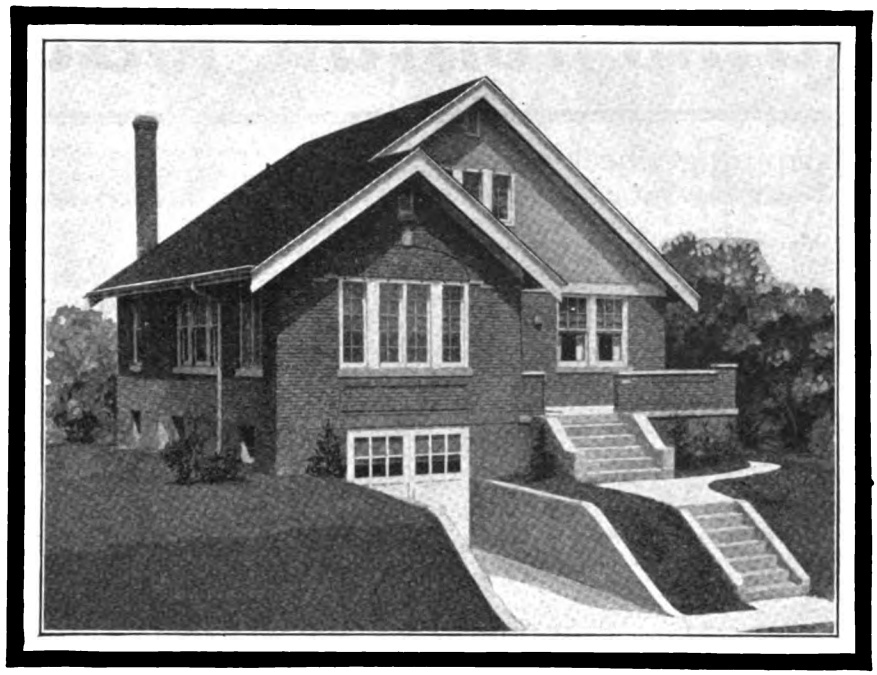
Houses cost much these days. Most building materials are high. But the Carey Asfaltslate Shingle provides a really excellent roof at a very reasonable price. By using this shingle we have a roof that will not curl, a roof that will protect, a roof that looks good, and we deliver it at a price which pleases the buyer.

And the way the slate is applied to make the surface of this shingle assures a rich appearance. Lots of people remark about the appearance of the roofs we put on.

Clarence Hillman

St. Bernard, Ohio

This is one of a series of statements by leading builders.



Residence of Omar H. Brown, Cincinnati. Clarence R. Hillman, Contractor.

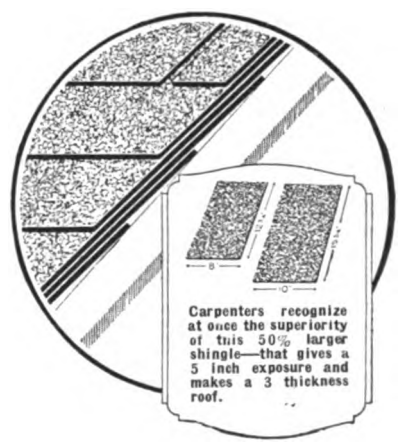
The kind of economy that helps you sell—

THE roof you want on the houses you build is the one that gives real selling advantages without an excessive cost.

The Carey Asfaltslate Shingle is reasonable in first cost, inexpensive to apply, remarkably free from need of repairs—

And yet it gives every feature the home buyer wants: noncurling, protection, appearance. Leading builders are proving these facts daily. Send the coupon for information and sample.

The Philip Carey Co.
520-540 Wayne Ave.
Lockland, Cincinnati, Ohio



Carpenters recognize at once the superiority of this 50% larger shingle—that gives a 5 inch exposure and makes a 3 thickness roof.

Carey
ASFALTSLATE
SHINGLES

· THE SHINGLE THAT NEVER CURLS ·

The Philip Carey Company,
520-540 Wayne Ave., Lockland,
Cincinnati, Ohio.

Gentlemen: Please send copy of "Before You Build" booklet and sample to

Name .....

Firm .....

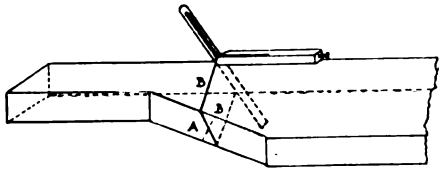
Address .....

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Kinks from the Job and Office

Determining Cheek Cut

TO determine cheek cut of jack rafters set a bevel for a miter (45 degrees) and mark across the level cut of the rafter A. With the try-square, square up to



the top of the rafter on each side, B. B. Set the bevel on the top of the rafter from points B B and you have the check cut of any jack rafter at any pitch.—**W. H. Cotter.**

Concrete Hog-Trough

HERE is a method of overcoming the principal difficulty in making concrete hog-troughs. Fig. 1 shows an end view of the form with the concrete in place. Note that the trough is in an inverted position. The outside form is a simple matter—two planks for the bottom, and one on either side, with the two ends made to match, complete the outside form.

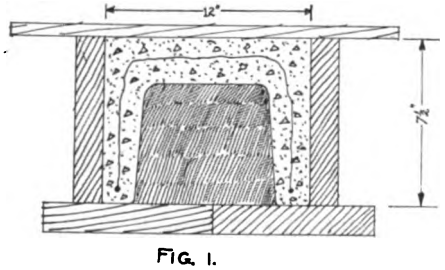


FIG. 1.

The inside form, if made of wood, will swell and thus not only make the form hard to remove, but the swelling of the form will crack the concrete and leave the work defective, if not completely ruined. To prevent this is an easy matter. When the outside forms are finished, with sand—just wet enough to pack well—form the hollow part of the trough. When the sand has been packed and smoothed off into the desired shape, cover it with a sheet of building paper, which should continue around what will be the upper part of the trough when it is set in an upright position.

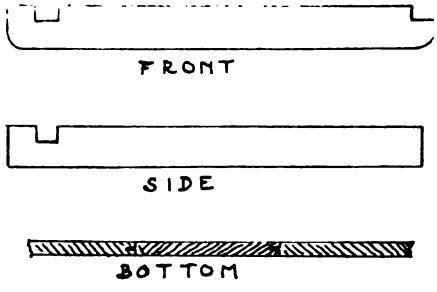
The corners are eased off so that when the forms are removed the upper part will have no sharp corners. This can be accomplished by filling the corners with sand before the paper is placed. The irregular lines shown on Fig. 1 represent woven wire for reinforcing.

After all of these things have been put into place the concrete is poured. When concrete is set, remove forms and set the trough right side up, as shown in Fig. 2.—**H. H. Siegele.**

Making and Fitting Drawers

ONE of the many shortcuts used in California building work is the method of making and fitting drawers.

Stock for drawer fronts, sides and bottoms is milled and sanded and carried in all lumber and mill yards. Bottoms are ¼x6" tongued and grooved. Fronts, ¾x4, 6, 8 and 10", rabbetted for a lip along upper edges, grooved to receive bottoms, round-edged on face sides and sanded. Sides which are also used for backs, are molded same as fronts with the lip left off the upper edge and made that much narrower; ⅝" thick and not round-edged.

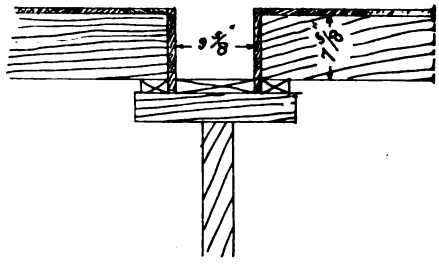


In fitting and assembling, the front is shouldered out to receive the side on each end, left enough longer to form the lip over the opening. The back is cut in like manner, or on a very cheap job may be butted in between the sides. After the sides have been nailed to the front the bottom pieces are slid into place and the last piece ripped off wide enough to allow it to enter the groove in the drawer back. Then the back is nailed in, and the bottom thus is housed into all four sides.

One run or slide is used under the center of each drawer. This is usually any convenient piece of ¾" stock, so placed that its lower edge is about 1-16" above the opening for the next drawer below, its upper edge being ⅜" above the lower side of the opening for the drawer which it is to carry. This run is secured level and square, nailed to the front frame of case and to an upright at the back of the case. The back of drawer is notched out to fit over this rim, allowing the bottom of drawer to slide on the run.—**E. Harwood Neal.**

Make Them Stock-Size

MUCH material and labor can be saved in designing beams for reinforced concrete construction, by making the size conform with stock-sizes



material. The accompanying illustration shows a beam so designed.

The bottom form is made of a 2x10"—9 5/8" wide. The depth of the beam makes it possible to use 1x10" boards for the side forms, which are held in place by the ends of the 2x8" joists, resting on 2x4s which, in turn, are supported by T-shores. While there are many sizes of beams to be considered, there are few with dimensions of 12" or less, that cannot be designed, so that stock-sized material will answer the purpose without ripping.—**H. H. S.**

Inside-Papered Garage

LAST fall I built a garage for my car. I had only rough lumber and this would not make the sides tight enough to keep out snow and rain. I could not afford to buy the matched lumber necessary for a garage. But I proceeded to build it in spite of all.

The question was, how to keep out the snow and rain. I did not want to cover the outside walls with paper as this would spoil the looks of the garage. The lumber was white and new.

I bought two rolls of tar paper and a few pounds of tin plates, also shingle nails. I fastened on the tar paper on the inside between the studdings, with the result that it has kept out all snow this winter. Being on the inside, the tar paper will last for years. And the appearance is fine.—**A. G. Hultquist.**

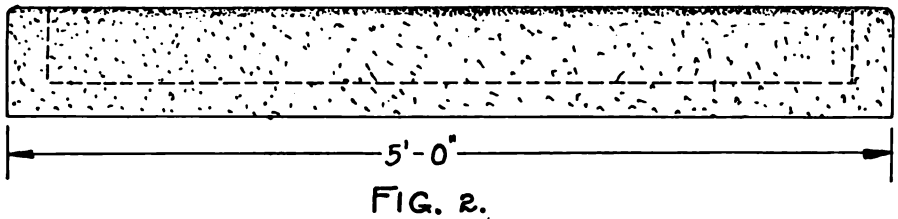


FIG. 2.

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SILVER STEEL SAWS



"THAT SMILE OF SATISFACTION"

is caused by the high quality of

ATKINS Silver Steel SAWS

which are all the word QUALITY implies. It means they run easier, cut faster and stay sharp longer than other saws.

Run Easier—because they are taper ground, that is, the blade tapers from cutting edge to back, and from butt to point.

Cut Faster—because of the Perfection Handle which directs the full force of the stroke on cutting edge of saw.

Stay Sharp Longer—because they are made of Silver Steel which is extremely tough, not brittle, still it files readily.

Atkins Saws are obtainable in either straight or skew back patterns, wide or ship point widths, in Hand, Rip or Panel style.

Ask your hardware dealer to supply you; if you have any difficulty, write us.

Send 35c. for carpenter's apron, pencil and Saw Sense booklet.

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CARPENTRY

Good Practice in Frame Construction and Finish

The Foreman Talks About the *Un*Common Rafter

By Edward H. Crussell

"THIS morning," said the foreman meditatively, "I had the unique experience of meeting one of the smartest men in the world. Rather an insignificant looking specimen he was too," he continued, after a pause, "You'd never think, to look at him, that he had strength enough to carry so much knowledge around. Not swelled up, or anything like that about it either; looking for a job as a common ordinary carpenter, and perfectly willing to start in at the regular scale."

"Oh!" said Davis, the apprentice, "That's the guy, is it? I saw him. Did he tell you himself that he was one of the smartest men in the world, or did you just guess it?"

"Well," admitted the foreman, "he didn't tell me so in just that many words. He told me a few of the things that he knew, and could do, and sort of let me draw my own conclusions. Among other things, he knew all there was to know about roof framing, and everything about the steel square. I can't get him out of my mind."

"I think I get your meaning," conceded Davis, "and while I am ready to admit that this fellow didn't have the appearance of a world beater—at roof framing or anything else; you can't always judge by appearances (as you are continually

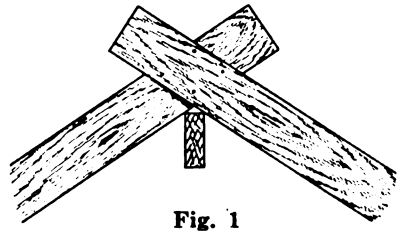


Fig. 1

telling me) and it seems to me that a man might possibly know all about roof framing, and all about the wonderful steel square, without necessarily being classed as one of the smartest men in the world. There surely must have been plenty of men who did know all these things, but I can't, just at this moment, recall any of them who have their names recorded on history's pages."

"And a very good answer too," quoth the foreman. "There are only two things wrong with it. The first is, we have no means of knowing if there ever lived a man who knew all about roof framing, or all about the steel square; the second is, the assumption on your part, that all the smart men necessarily get their names enrolled on history's pages.

"The trouble comes from that little word 'all.' Too many people use it without due consideration, or without a true conception of its meanings. You may know *all* that it is *necessary* to know about roof framing, and twice as much as any other two men know on the subject, and still fall far short of knowing *all* about it. You have only to pick some simple thing with which you are familiar, and try faithfully to set down all that you know about it, to realize that the person who says he knows all about such a complicated subject as roof framing; or all about the properties of the right-angled triangle, as exemplified by the steel square, has not yet gone deeply enough into either subject to know much of anything about them.

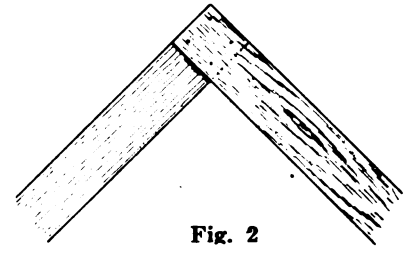


Fig. 2

"We might select any one of a dozen different things to use as an illustration, but since that fellow left me this morning, my mind has been running on one subject only, and that subject is roof framing. What do you consider the most simple item in connection with the

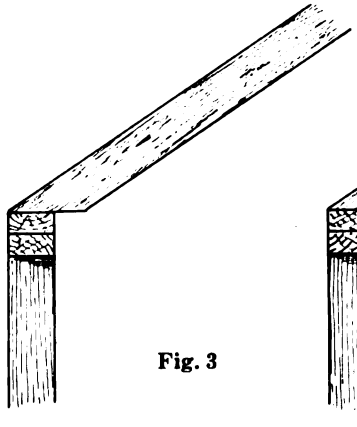


Fig. 3

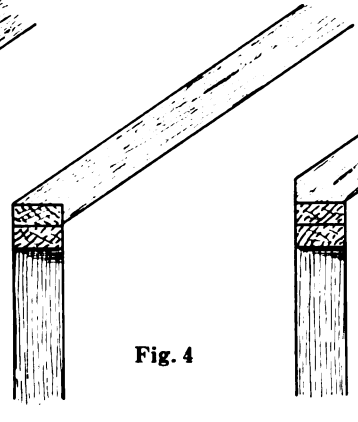


Fig. 4

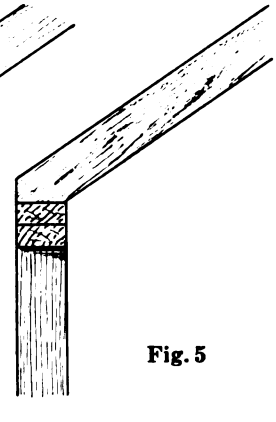


Fig. 5

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These advertisements featuring Brass Pipe appeared in one issue of the New York Times.

Brass Piped Houses are easier to sell

People instinctively trust Brass Pipe. They know Brass plumbing is a mark of quality and have confidence that a house with Brass Pipe is usually well-built throughout.

Progressive realty operators and builders appreciate this as an important sales factor.

Anaconda Brass Pipe *cannot* rust or clog with rust deposits. Its use insures clear water at full service pressure from every faucet in the house as long as the building lasts. Yet, Anaconda Brass Pipe costs only about $75 more than corrodible pipe in the average $15,000 house. Insist on Anaconda. It is guaranteed and the trademark rolled in the metal for your protection.

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ANACONDA BRASS PIPE

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framing of an ordinary roof? Pick something you know all about."

DAVIS pondered for a moment and then, "Let's take the common rafter," said he. "After what you've just been saying, I'm not going to pretend I know all about it, but I think I know enough to answer your purpose."

"The common rafter will do very nicely," agreed the foreman. "Do you know it by any other name?"

"No," said Davis after a moment's thought.

"Then you may add to your knowledge, the fact that in the British Isles, common rafters are known as 'spars' and that in parts of Newfoundland they are called 'couples'."

"I don't think that's quite fair; they probably call them other names

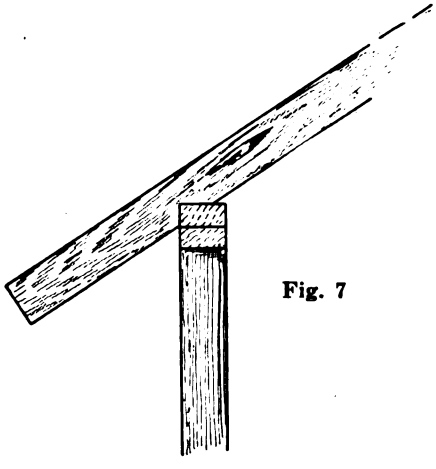


Fig. 7

in France, or Africa, or among the South Sea Islanders. Indeed, now that I come to think of it, I've heard them called other things right here, especially when they didn't fit properly."

"All right; we'll let that pass. In how many different ways can you lay out a common rafter?"

After a moment's consideration Davis replied, "Three; with the steel square; by means of a scale drawing; and by mathematics. When the base and altitude of a right-angled triangle are known, the hypotenuse may be found by a well known rule of geometry."

"That's fine, as far as it goes; but you forgot to mention any of the various roof tables, patented squares, or similar devices. I know that you merely forgot them so I'll not charge that against you but in the past, workmen who knew nothing of any of these methods have been able to frame and erect roofs. How do you suppose they managed it?"

"Look here," said Davis, "I've already admitted that I don't know all about the common rafter, and if it'll do you any good, I'm ready to

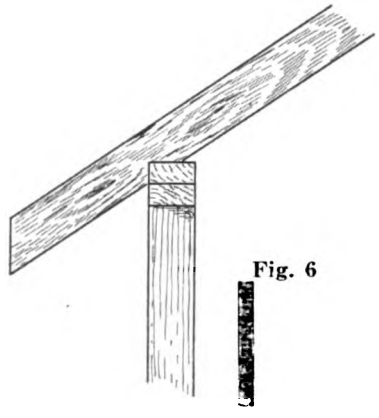


Fig. 6

admit that I don't know anything about it. I think you'll save a lot of time by cutting out the questions and going ahead with your lecture."

"PERHAPS you're right," the foreman agreed, smiling. "The methods you mention are all that are needed to frame any style of roof, but we were talking about *all* the methods and in the early days, many good roofs were marked out, by stretching a line on the ground, marking off the width of the building on this line, and marking another line at right angles to the center of this space; making this second line of any desired length, such as one-fourth, one-third, or one-half the width of the building. Then, by laying one of the rafters in proper position over these two lines, the correct cuts could be marked off. It has been claimed that it was in this way the terms, one-fourth pitch, one-third pitch, etc., were originated, which is something I am not ready to argue about.

"I have known of common rafters being marked out by holding them up to a suitable angle and marking the plumb and foot cuts by means of a level. I have also known of the ridge being put in place first and the rafters laid over it, the upper ends of two opposite rafters crossing each other side by side, after which they were nailed together and the surplus ends sawed off like this."

And the foreman drew Fig. 1 on a piece of board.

"I might tell you here," said the foreman, "that in those parts where common rafters are called couples, practically all of the roofs are framed to half-pitch and the rafters are halved together at the top like this (Fig. 2), nothing but a square cut being needed. No ridge piece is used and the rafters are all put together on the ground and erected in pairs. I think it is from this cause that the rafter gets its peculiar name. You may never have to use either of these methods but it does no harm to know of them, even though we merely consider them in the light of things to be avoided.

"Of the three methods you mention, there are at least four different ways in which a common rafter can be marked out by means of the steel square. Suppose we have a one-third pitch roof to frame for a building 27 feet wide; 8 and 12, as you know, will give us the cuts for one-third

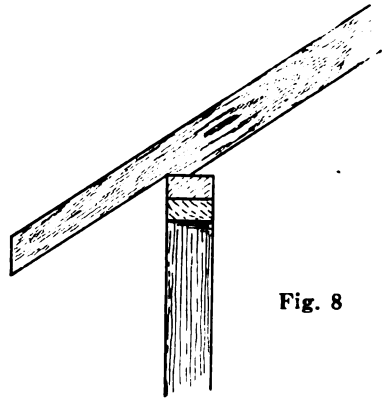


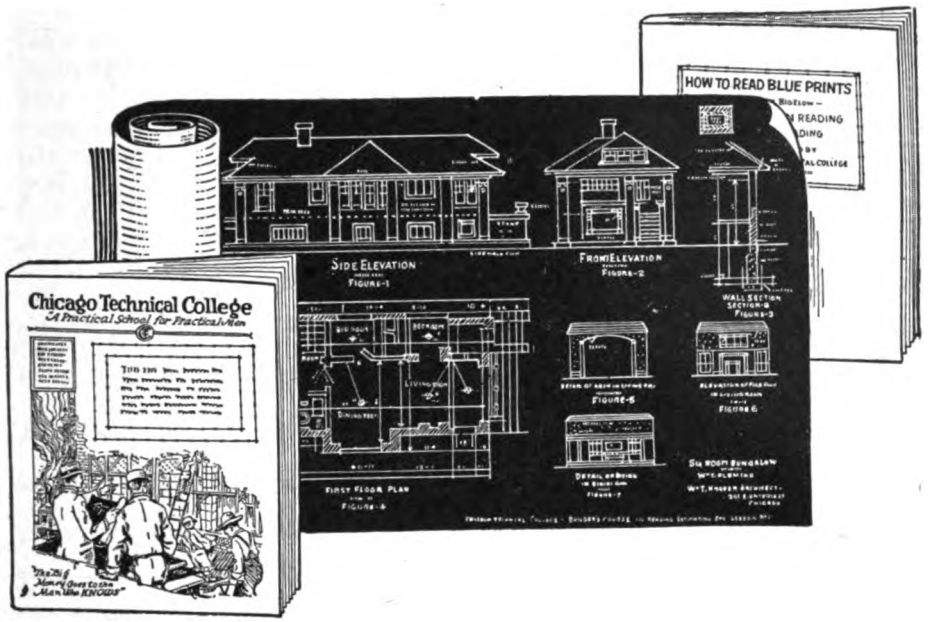
Fig. 8

pitch, and if we take 8 inch on the tongue of the square, and 12 inch on the blade, and 'step' the square along the edge of the rafter 14 times (that is, the number of feet in the run of the rafter, or half the width of the building) we shall obtain the true length of the common rafter.

"OR instead of stepping square along the edge of the rafter we may measure across the square from 8 to 12 and having found the length of this hypotenuse, multiply it by 14, the run of the rafter, measure this distance along the upper edge of the rafter and mark the plum and foot cuts by means of the square. Or, using inches for feet, we may take the run of the common rafter (14) on the blade of the square, and the rise (9 and 4/12) on the tongue, and step this off 12 times. Or we may measure across

(*Turn to page* 128)

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Continued from page 126

The Foreman Talks

the square from 14 to 9 and 4/12 and multiply this measurement by 12 for the true length of the common rafter. All these ways have their uses under certain conditions; they arrive at the same result but by different means, and when you get your first job of roof framing, if you mark out your rafter by one of these methods and check up the result by two of the others, you may be reasonably sure that you are right.

"When marking out the rafter by the scale drawing method, the only variation I can think of at present is the different scales that may be used; such as 1 inch to the foot, 3 inches to the foot, etc. Although if, instead of a mere common rafter, we were considering a hip and valley roof, the different methods of setting it out by means of a scale drawing would run into quite a number.

"By mathematics, in addition to the method you mention, we may sometimes be able to use the rule of three, or proportion, to advantage. In which we may say that the ratio of the run to the rise for one foot run, equals the ratio of the total run to the total rise, or 12 : 8 = 14 : 9 4/12. Or the ratio of the run to the hypotenuse for one foot run, equals the ratio of the total run to the total hypotenuse, which is the length of the rafter."

"Gee! Boss, the more you talk the more muddled I get. Why can't we take just one of these methods and stick to it?"

"And that is the very best thing you can do, until you have the one method thoroughly learned; after that, you should study all the other methods, because you'll find that all the information you can get, is none too much to cover all the different points likely to arise in the art of roof framing during the course of a busy life. And, as I have already pointed out, when you know several methods, you are able to check them, one against the other, and thus avoid mistakes.

"In addition to this, I might point out the fact that roofs are not always designed to suit standard roof pitches. Some time we may get a roof that is marked '5" rise to the foot'; and at another time get one that has been designed to fit some certain space, with a run of rafter of 14 feet, 6 inches, and a total rise of 8 feet. A few instances like this will soon convince you of the need of more than one method of doing the work.

"Now we have only a few more things to consider and we shall be ready to lay out our rafter. First, as to the arrangement at the ridge. If a ridge piece is to be used, half of the thickness of it must be deducted from the run of the rafter, something we will consider presently, if no ridge piece is used no allowance has to be made.

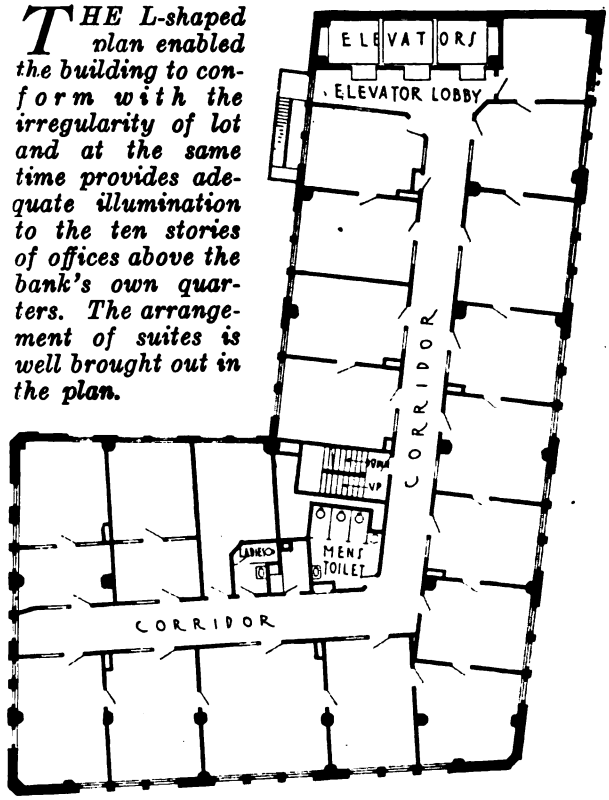
"The other end of the rafter is a little more complicated. Here are six different arrangements (Figs. 3 to 8), each one of them calling for a slightly different method of procedure, and they do not exhaust all the variations by any manner of means. Look them over and then . . . . . .

"But we will go into those other methods next month. I particularly want to show you, then, how to cut the right sized bird's mouth."

A Friendly Southern Bank

Continued from page 97

THE L-shaped plan enabled the building to conform with the irregularity of lot and at the same time provides adequate illumination to the ten stories of offices above the bank's own quarters. The arrangement of suites is well brought out in the plan.



are highly ornamental; one on each of two sides of the building of heavy bronze.

Within, an atmosphere of friendliness has been happily combined with one of security and strength. The ceiling is impressively high, almost forty feet, and together with the mezzanine offices, is shaped in crescent form. The convenient arrangement, as the plan demonstrates, is effected by grouping offices, customers' and working spaces so that all are in proximity to one another.

The floor of the lobby is of marble tile. Running entirely around the room is a stone arcade, formed by supporting arches of the mezzanine floors. These are a light buff to harmonize with the banking fixtures; the latter of Tavernelle Claire marble.

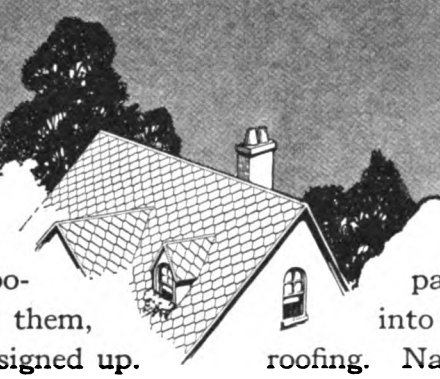
Two stairways lead from the main floor to the mezzanine gallery. Here large bronze pedestal lamps focus light against the lobby ceiling and reflect a diffused illumination over the floor below. Over the rear extends a second mezzanine where are a kitchen and a lunch room.

The basement, reached by wide stairs from the lobby, holds safety deposit vaults, trunk vault and record vault. Its lobby is floored in marble with marble wainscot and ornamental ceiling. Also in the basement are the trust and savings departments and private offices.

Above the floors occupied by the bank proper are ten stories devoted to public office use. All are modern and well appointed in every respect. The revenue from these offices enables the Frost National Bank to offset a great part of the maintenance of their own elaborate quarters on the first three floors.

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Eternit Shingles are priced to let you meet substitute roofing competition and still make a splendid profit. The most simple, workable plan you ever saw *enables you to sell roofing jobs on time.* This helps you get your share of the time-payment money that is now going into luxuries while people put off roofing. National advertising is boosting Eternit sales. A policy of exclusive sale assures you of all the business created in your territory.

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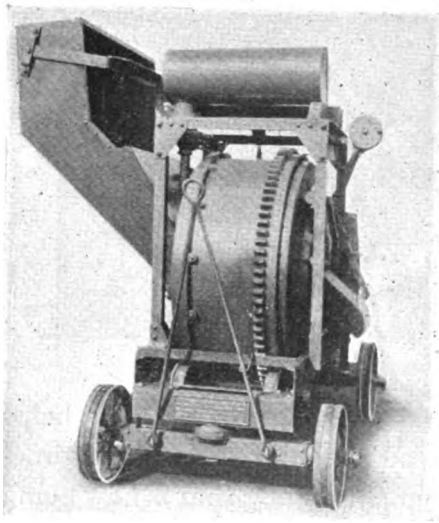
WHAT'S NEW



New Materials and Equipment that Keep Your Work Up to Date

Narrow Drum Mixer

ONE of the recent developments in the concrete machine industry is the narrow drum mixer. Its makers, the Standard Scale & Supply Co., Pittsburgh, Pa., claim that this new mixer means a notable saving of time in mixing.



The "Standard" Narrow Drum Mixer has a very large charging hole, its diameter being 24 inches. It has a wide charging chute and when the skip is elevated it obtains such an angle that the load fairly drops into the drum, securing very rapid charging.

The narrow drum is deep enough to receive the entire charge in one "shot," and is at the very center of the drum, directly in the buckets where it is mixed. No part of the aggregate is held in the charging chute until the drum revolves, thus marking a departure in this machine in that it needs no deflector blades. As soon as the material drops in, it begins to be mixed as thoroughly as is possible at any time.

When the drum is set in motion the buckets lift the aggregate up and with a scouring motion tumble it down, again and again, into one conglomerate mass. The discharge opening is 18 inches in diameter, while the discharge chute is made just wide enough to give it free movement in this opening. A number of other interesting features and details are incorporated in this new mixer.

Handy Bench Machine

CAPABLE of a surprisingly large number of applications is a small bench machine known as the "Dew-All," made by the DeWalt Mfg. Co., Leola, Lancaster, Pa. This machine changes from one kind of work to another with very little loss of time. It will do cross cutting, ripping, mitering, beveling, matching, moulding, irregular shaping, dadoing, routing, sanding, boring, turning, fluting tenoning, and panel raising on any rake or bevel.

The machine cuts 2 in. thick and 15 in. wide, and handles material of any length. Among its many attachments are those for jigsawing, knife grinding and lathe work. It has direct motor drive.

Concrete Spreader Attachment

EASY adjustment to any desired thickness of spread is the main feature of the new improved spreader attachment for Rex Pavers, manufactured by Chain Belt Co., Milwaukee, Wis. By means of this spreader it is not only possible to do away with considerable hand labor, but there is also a saving in time on jobs where the spreading is otherwise slow.

The attachment consists of a heavy bent steel plate hung on pivots in a steel frame with a screw and hand wheel for adjusting purposes. The frame itself is riveted to the bucket while the bent plate is hung on pivots which allows it to swing freely in one direction. During the outward trip of the loaded bucket the pivoted plate is free to pass over grade stakes or similar obstructions, while on the return trip, after the bucket has discharged its load, a cross-bar acts as a stop and holds the pivoted plate in position while spreading.

Window Balance

SIMPLY and durably made, a window balance of tested type forms a capital substitute for weights and cords. A window balance called the Sterling, made by the Sterling Window Balance Co., Rochester, N. Y., allows the sash to run up and down as easily as the average sash hung on cords and weights. Lifting is accomplished by the action of the springs throwing the rollers up the inclined planes. This gives an upward movement to the sash; while the roller bearings eliminate friction on jambs.

The balance consists of a face plate, an inclined plane, a flat, two-leaf tempered spring, a hard maple roller and three screw adjustments, each part so fitted to the others that all are held in place by the adjusting screws. No rivets or bolts are used in putting the balance together.

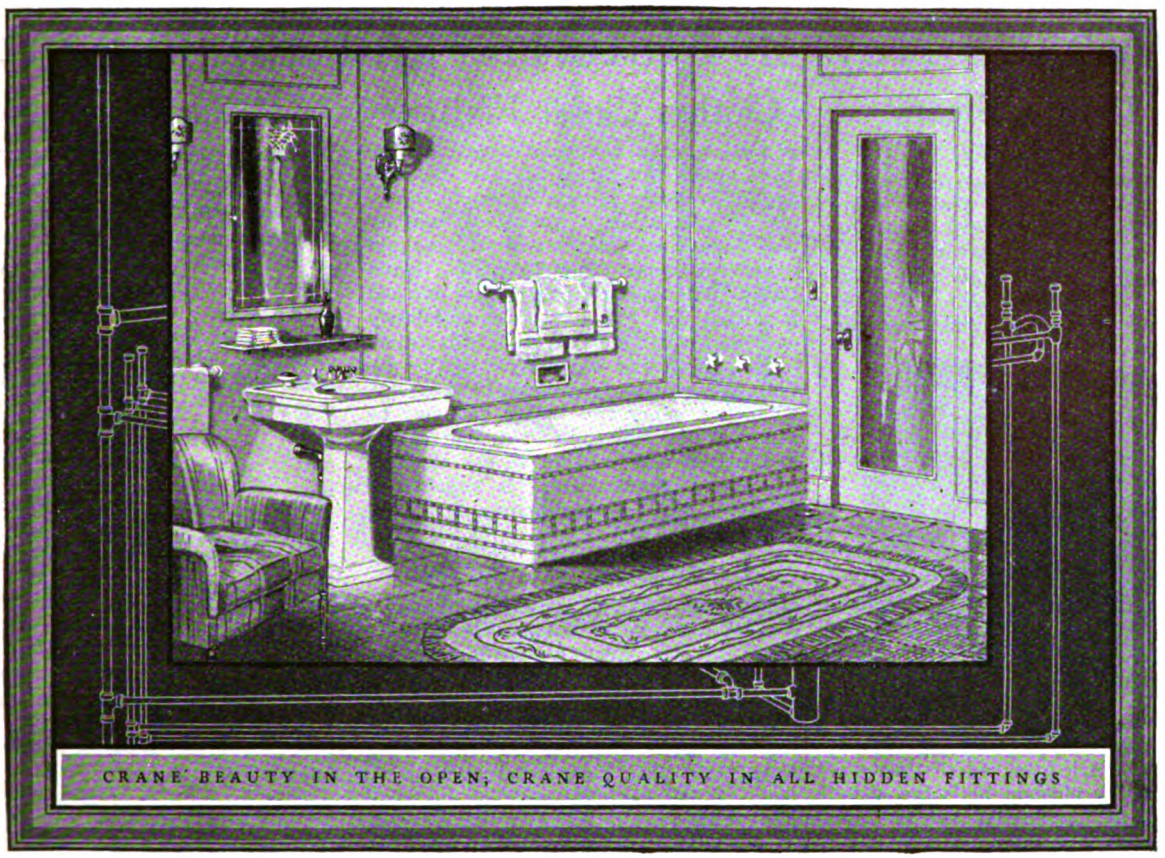
It is made in two sizes, for sash weighing 6 to 14 lbs., and 15 to 25 lbs., respectively.

Steel Rolling Door

NOTABLE both from a construction and practical viewpoint was a rolling steel door recently made by the Cornell Iron Works, Inc., New York City. This door, which, it is claimed, is the widest rolling steel door ever made, is 45 ft. in width and 17 ft. high. It weighs two tons and operates up and down by electric motor in 30 seconds. The door covers a railroad entrance into the Kirkman & Son Building in Brooklyn, N. Y.



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CRANE BEAUTY IN THE OPEN; CRANE QUALITY IN ALL HIDDEN FITTINGS

HOW TO MAKE HOUSES MORE ATTRACTIVE TO BUYERS

Putting enough money into the bathroom is an investment that promptly pays big dividends. Often an attractive bathroom is the deciding factor that ends the "looking around" and gets the signature on the dotted line. Always, it hastens the sale and increases profits.

If you can tell prospective buyers, "This is a Crane bathroom," you benefit directly from the striking advertising of the Crane name and products now appearing in 23 national magazines and 67 newspapers.

Let Crane help you put this added sales value into the homes you build. At your plumbing contractor's or at the Crane Exhibit Rooms, see the wide variety of baths and lavatories, in a range of convenient sizes and interesting prices.

CRANE

Address all inquiries to Crane Co., Chicago

GENERAL OFFICES: CRANE BUILDING, 836 S. MICHIGAN AVENUE, CHICAGO

Branches and Sales Offices in One Hundred and Forty-eight Cities

National Exhibit Rooms: Chicago, New York, Atlantic City, San Francisco and Montreal

Works: Chicago, Bridgeport, Birmingham, Chattanooga, Trenton and Montreal

CRANE EXPORT CORPORATION: NEW YORK, SAN FRANCISCO, SHANGHAI
CRANE LIMITED: CRANE BUILDING, 386 BEAVER HALL SQUARE, MONTREAL
CRANE-BENNETT, LTD., LONDON
CIE CRANE: PARIS, NANTES, BRUSSELS



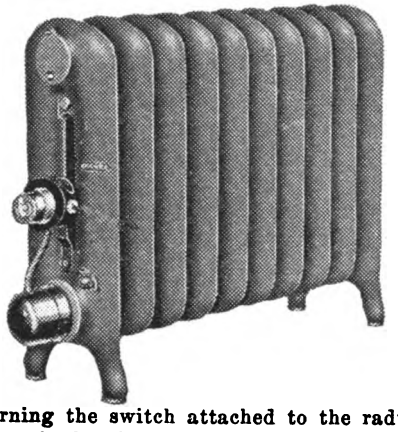
Fixtures priced for modest homes; others for luxurious houses, apartments and hotels

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What's New in Materials and Equipment

An Electric Steam Radiator

INDIVIDUAL heating system, which can be placed wherever desired where proper electrical outlets have been provided, is the new electric steam radiator manufactured by the Buffalo Gas Radiator Corp., Tonawanda, N. Y. It is known as the "Niagara," and by simply



turning the switch attached to the radiator the heating element boils the water which surrounds it, heating the radiator with hot water and steam.

This system consists of a "Niagara" cast iron radiator fitted with extra size nipples at the bottom into which the heating element is fitted. This element extends through the entire radiator, thus assuring even heat in every column. The third component part is the three-heat switch, made a part of and affixed to the radiator.

When the electric connection has been made to the proper receptacle, the radiator is to be supplied with water through the filling cup in sufficient quantity to cover the heating element, one filling of water lasting several months. The three-heat switch supplies current to the radiator in three different quantities, viz., "high," "medium" and "low." The switch is first turned to "high" for bringing the water to the steaming point, after which it can be turned to "medium" or "low." A thermostat having a range of from 50 to 80° can be furnished.

Lock for Light Bulbs

DESIGNED to prevent the theft of electric light bulbs is a device recently placed on the market under the name of Ren-Lock. It is manufactured by the Ren Manufacturing Co., Winchester, Mass.

This is a simple lock consisting of only two parts, a coiled spring and a grooved ring. A special punch is used to attach the Ren-Lock to the socket. This device can be used with standard electric light bulbs and standard brass, porcelain and weather-proof sockets.

Clothes Closet Fixtures

ONE of the conveniences which impress the home seeker is well equipped clothes closets of ample capacity. Installations which thoroughly modernize the clothes closet are featured by the Knape & Vogt Mfg. Co., Grand Rapids, Mich. These fixtures are finished in nickel and slide outward noiselessly on roller bearings. They can be installed in old closets as well as new. The fixtures come in lengths from 12 inches to 60 inches, every two inches and may be attached over the top of the door casing and to the rear wall, or to the shelf of the closet. Each fixture is capable of holding a dozen or more garments.

Floodlight for Stores

MODERN shop window illumination shows a remarkable advance over that in vogue a decade or more ago. A floodlight which gives evenly distributed light and forms a unit of great power is Sun-Ray Model 75, made by the Sun-Light Lighting Products, Inc., New York City. This floodlight is an all metal unit provided with a universal arm enabling the light to be directed where desired. It has a color frame that snaps on the reflector by which a new color film can be quickly inserted.

Welded Steel Furnace

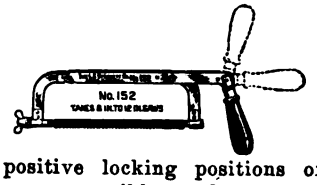
DEPARTING from older forms of furnace construction is a welded steel furnace which does away with the use of cast iron for radiating surfaces and has an inner body made of heavy annealed steel sheets. This radiator is made by the Hess Warming & Ventilating Co., Chicago, Ill., is square in shape and welded together by a special process. This gives a permanently tight construction, the natural expansion from heat and cold being taken up by the flexibility of the inner body's large, flat side area.

Thanks to the tight inner body, clean heat is always given, even The steel used is No. with smoky soft coal. 12 gauge, about one-eighth inch in thickness, and the steel is thoroughly protected against burning out. The square form of the in the use of material and labor, and at the furnace is economical same time the radiating surfaces are greater in area than in a round surface of the same diameter.

Adjustable Handle Hacksaw Frame

SIMPLICITY of adjustment of the handle to suit working conditions is a distinguishing feature of a new adjustable handle hacksaw frame, No. 152, manufactured by the L. S. Starrett Co., Athol, Mass.

This tool should be thrice useful on electrical, plumbing, steam-fitting and other similar jobs, owing to the advantages which its handle confers. Thir-



teen positive locking positions of the handle are possible, and when set to facilitate cutting in a strained or awkward position, saw breakage is materially lessened. Saws may be quickly changed and set to cut in any one of four directions. The tool is made with dull-nickel finish.

Mason's Cement

TIME is often wasted on the masonry job waiting for the mix. A mason's cement of standard composition which eliminates this lost time is made by the Louisville Cement Co., Louisville, Ky. This cement is called Brixment, and mortar made with it requires no slaking and may be used immediately after mixing. It may also be re-tempered after a reasonable length of time without material impairment of strength. This cement is well adapted to cold-weather work owing to its oil content and water-repelling characteristic. The latter quality enables it to be used successfully in locations where an unusual amount of moisture must be contended with and lime mortar is not practical.



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TRIPLE INSULATED HOME

A Johns-Manville Idea

How the Triple Insulated Home Idea makes houses easy to sell

NOW every builder can utilize the tremendous selling forces of national advertising and the trade-mark to speed the sale of his houses in his town.

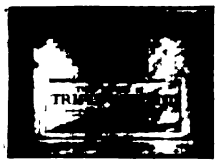
A powerful nation-wide sales plan creates a demand for the houses before they are built.

Here's what happens. Page advertisements in The Saturday Evening Post and other magazines tell millions of readers of a new kind of house, safer, more beautiful, more comfortable and more economical than ordinary houses. This type of house has the beauty, permanence and safety of an asbestos shingle roof. It has the comfort and economy of a protecting blanket of Johns-Manville Housline building felt in its walls. It has high efficiency, fuel-saving Asbestocel insulation on its heating system. It is a house to be preferred by any buyer—and it will be.

This house will be known as a Triple Insulated Home —any builder can build it. It will be identified by a "trade-mark" built into the cellar wall which will give the name of the builder and which shows that the house is registered by Johns-Manville.

It will carry the prestige of a better product and the prestige of the Johns-Manville reputation. It will be easy to sell.

Write today for full particulars of how this plan will sell houses in your community.



This "trade-mark" built into the cellar wall identifies a Triple Insulated Home.



Send for this book

It will prove to you that it pays to build trade-marked and Triple Insulated homes.

The Triple Insulated Home

A Johns-Manville idea

JOHNS-MANVILLE Inc., 292 Madison Ave., at 41st St., New York City

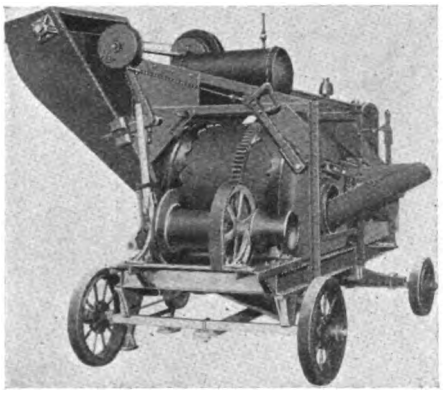
Branches in 63 Large Cities. For CANADA: CANADIAN JOHNS-MANVILLE CO., Ltd., Toronto

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What's New in Materials and Equipment

Low-Hung Mixer

REDUCTION of vibration has been the objective in building the new 7-S and 14-S mixers made by the Lansing Co., Lansing, Mich. Thus the machines have been made to hang low to the ground, following the principle that has been applied to automobiles, giving them



a low center of gravity. Improvement of the mixers' development of power, such as that of the Le Roi 2 and 4 cylinder type engine, has greatly aided in keeping vibration down.

Smoothness of operation is furthered by the rigid and heavy frame and axle construction, the frame being hot riveted together and amply cross membered.

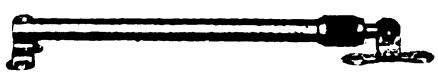
The design and arrangements of blades and buckets are made to give a thorough mixed and fast discharge action, and the drum tracts are carefully machined to perfect circles. Also aiding smoothness of action is the careful mounting of the drum on the rollers, the rollers on the trunions and the trunion shafts to the frame.

Another feature that lends itself to smooth operation is the internal expanding Raybestos lined hoisting clutch with automatic release and brake when the skip reaches the 50 degree discharging angle.

The machine illustrated is the new 7-S mixer.

Casement Adjuster

EXTREMELY simple in construction is a casement window adjuster made by the Lyons Mfg. Co., New Haven,



Conn. This device, which is called the Lymco Adjuster, has no complicated mechanical parts. Its friction lock is a one-piece metal sleeve, which is assembled inside a knurled thumb nut. To make adjustments, the nut is simply given a turn or two. These adjusters are made of solid brass and are furnished in four stock finishes.

Veneer Taping Machine

REFINEMENTS of new construction based upon much observation and experience are embodied in a motor driven veneer taping machine made by the Black Bros. Co., Mendota, Ill. This model, 203-A, is the successor to the same makers' 202-A machine.

The overhead arm is now considerably heavier, and has a duct for the warm air drier cast through it. The water pot and tape moistening roller are cast aluminum, avoiding the corrosion which occurs with cast iron. The tape holder is also aluminum, holding the tape firmly and also revolving with it. The drive has been simplified, eliminating all gears but one worm reduction gear. Provision is also made for direct motor drive from a motor mounted on the base, and connected by either a belt or chain to the countershaft.

The feed mechanism consists essentially of two broad steel chains which converge slightly in the direction of their travel and which carry the veneer under the feed rollers. The veneer is thus forced together at the same time as it is carried forward, and when in this position a prepared tape is laid over the joint. Provision is made to have the tape pick up an excess of water so as to saturate it thoroughly and quickly, and then dry out the excess by playing a stream of warmed air upon it.

Cellar Drainer

WHEREVER it is desirable to remove seepage water from a point below the natural drainage level of the sewer, cellar drainers of improved type offer a solution. A new model "R" automatic cellar drainer, made by the Penberthy Ejector Co., Detroit, Mich., operates by city water pressure and is constructed to occupy a minimum of space. It is entirely automatic and requires no attention after installation.

Installed in a sump below level of surface to be drained, the drainer valve is normally in low position. As the water rises in the sump it lifts the float until when sufficient water has accumulated the float buoyance opens the valve and starts the ejector. The latter pumps rapidly, until the level of water in the sump has lowered to a point where the float in descending with the level of sump water, automatically closes the valve. The cellar drainer now remains inactive, using no pressure water, until sump has again filled with seepage water.

The improvements are built around the old center tube construction, which permits of compact assembly and least possible floor space. Beveled brass seats are used for durability, and a city water strainer ahead of the valve prevents scale from entering the valve and scoring the seats.

"Cabinet Heater"

SMALL houses, especially bungalows, which are planned without a cellar or basement, are laid out for heating by means of an above-floor furnace—the so-called "cabinet heater." A new development in this direction is the Mueller Furnacette, made by the L. J. Mueller Furnace Co.

This heater takes the place of two or more heating stoves as it heats on the same principle as a warm air furnace—by constant re-circulation of moist, warm air through all connected rooms.

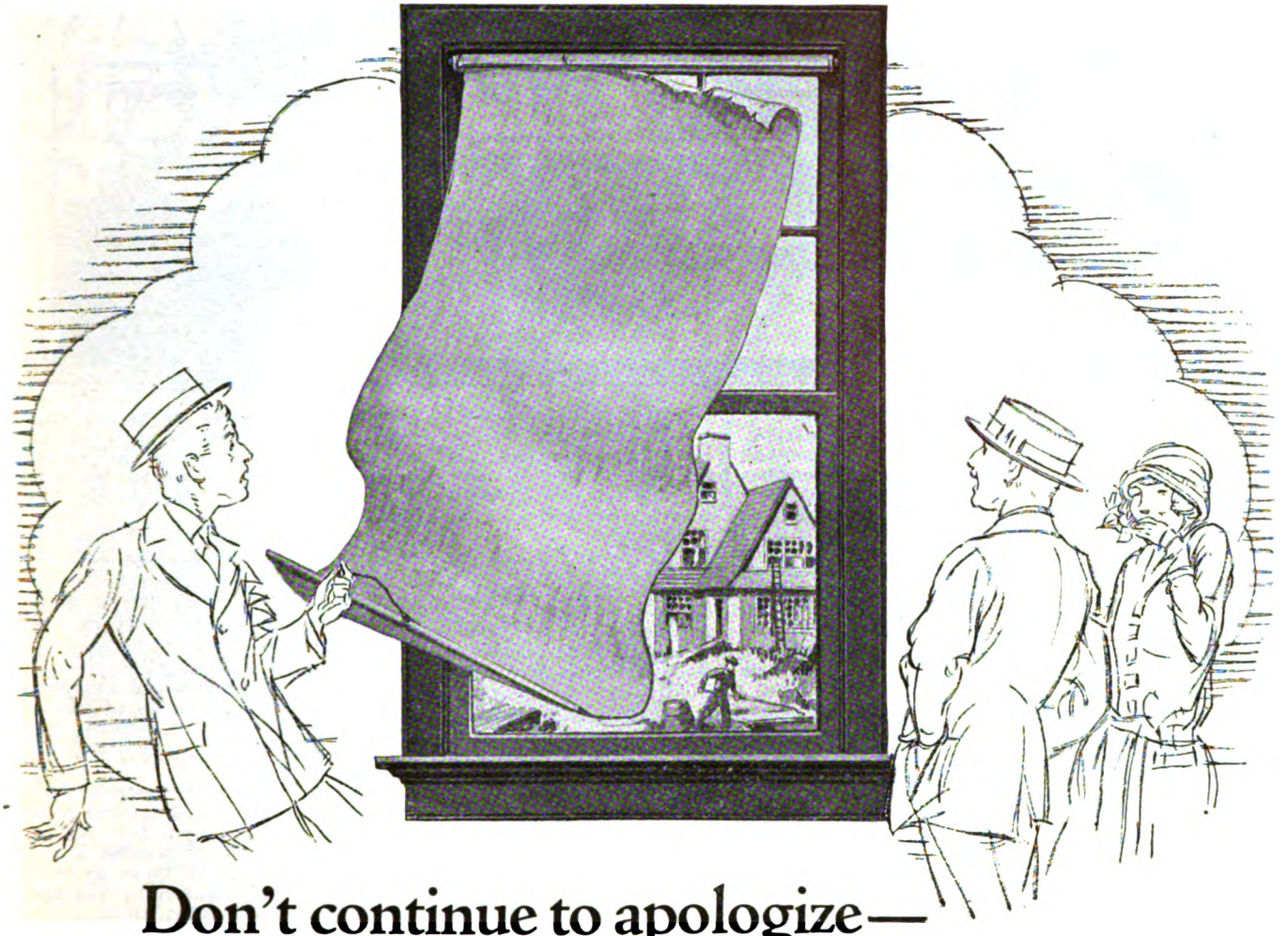
It is the joint creation of the Mueller heating engineers and of a designer of nationally advertised living room furniture. The cabinet, of Louis XVI. period design, has a vitreous enameled finish, reproducing the color and grain of walnut, and the trimmings are finished in russet-bronze.

The Furnacette is equipped with a dependable automatic heat-regulator. A concealed air-cooled floor protector of patented design does away with the necessity for the old-fashioned zinc floor board, and glass caster cups under the legs protect floor and rugs.

Among its other features are hot-blast fire-pot liners, which act as smoke and gas consumers; dust-proof ash shaker; smoke- and gas-light doors; one-piece heater casting, and absence of draft openings. Doors in the front cabinet panel are set flush, with concealed hinges and latches. The Furnacette will heat houses of from five to seven rooms, and uses the same amount of fuel as an ordinary heating stove of equal grate area.



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Don't continue to apologize— brag about the shade rollers you install

It's an embarrassing moment, and an expensive moment. It's likely to mean loss of a prospect, which cuts your profits. The Automatic Stop of the Edstrom Red Tip Roller makes it impossible:

Because the Automatic Stop, the exclusive, patented feature of the Red Tip Roller, halts the shade before it can be torn off,

Because the Automatic Stop will not let the shade fly wild over the top,

Because Red Tip Rollers will lengthen the life of the shade and preserve its appearance and efficiency,

And because every Red Tip Roller is quality-made throughout, with economy built into it.

Equip your buildings with Edstrom Red Tip Shade Rollers.

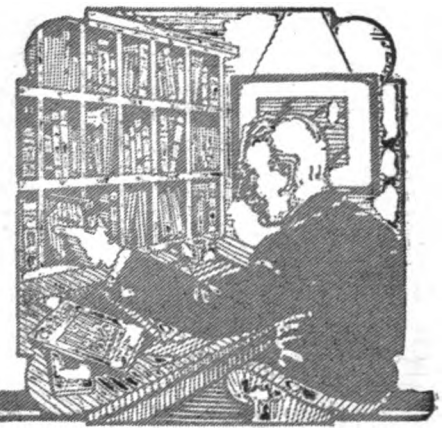
[*For full particulars, price list, etc., apply to Department 7B, Edstrom-Wetmore-Henderson Corporation, Warren, Pa., or your dealer*]

LOOK FOR THE RED TIP

EDSTROM
RED TIP
Reg. U. S. Pat. Off.
AUTOMATIC STOP
SHADE ROLLERS

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USEFUL CATALOGS



Kitchen Cabinets built of steel are a modern equipment feature that has won popularity. Several units and types of these cabinets, an In-A-Wall Table, a steel telephone niche, and steel medicine cabinets are concisely described in bulletins of the Majestic Steel Cabinet Co., 4223-31 Belle Plaine Ave., Chicago, Ill. The folders are illustrated with photos and details.

Concrete work in various phases, including some of the world's largest concrete jobs, is shown in the 1925 Mixer and paver Catalog, just issued by the T. L. Smith Co., Milwaukee, Wis. One view shows the great Wilson Dam, Muscle Shoals, Ala., on which eight of the largest mixers—Smith 56-S and 112-S—were used. Four new tilting mixers, among them the Smith "Mascot," are included in this catalog.

Insulation and reduction of heat waste by means of weather strips is approved practice. Strips of various kinds, together with screen mouldings, window cleaners, and hardware specialties are listed in a dealers' catalog lately issued by W. J. Dennis & Co., 2110-2120 W. Lake St., Chicago, Ill.

Oil Burners have unquestionably established themselves in the eyes of home owners. "Nokol," a new booklet discussing this problem, has recently been published by the American Nokol Company, 215 N. Michigan Ave., Chicago, Ill.

Metal Grilles have distinctive decorative value in building work. Their possibilities in the matter of beauty, economy and utility are taken up in new literature sent out by the Harrington & King Perforating Co., 5655 Fillmore St., Chicago, Ill.

Ventilators today are manufactured on a scientific basis. Specification details and instructions regarding Liberty ventilators are included in the folder by the John Call Company, 122 N. Franklin St., Philadelphia, Pa.

Drip Edge is the name of the metal strip that fastens and finishes the roof edge. The part that it plays in completing correct roofing work is brought out in literature by the Miller & Gleason Co., Olean, N. Y.

Roofing and roof coating are materials with which every builder is concerned. Various types, colors and materials are presented to prospective users by Bird & Son, Inc., E. Walpole, Mass.

Plumbing and heating supplies include innumerable products, sizes and types. An unusually comprehensive cataloging of them has been made in the "Handy Man Book" distributed by the Hardin-Lavin Co., 4533 Cottage Grove Ave., Chicago, Ill. Price 50 cents.

Recommended Building Code for cities with populations of 125,000 to 150,000 appears in the revised 1925 edition with sections modified to accord with recent developments. It is published by the Portland Cement Assn., 111 W. Washington St., Chicago, Ill.

THE up-to-date catalog file means that the builder can, on a moment's notice, turn to it with every assurance of finding the product to suit his needs. Close scrutiny of these reviews carried along with reference to the Selected List of Manufacturers' Literature will enable the contractor to call for the latest editions in descriptive matter. Write to the manufacturers direct or to this department of BUILDING AGE and NATIONAL BUILDER.

Dumbwaiters and Elevators stand for convenience and good building policy in every building work today. Illustrations, specifications, etc., are given in brief in the "Service Sheets" of the Chelsea Elevator Co., 441 West 19th St., New York City.

Shade Carrier is a device upon which the shade roller is movable to any position desired up and down the window. Its advantages lie in proper ventilation, light, shade and privacy. A bulletin on this easily installed fixture may be obtained from The Baltimore Shade Carrier Co., Maryland Trust Bldg., Baltimore, Md.

Heating Equipment is now almost universally included in the specifications. The contractor and prospective builder should acquaint themselves with the various types of apparatus. An edifying manual relating to this work is published by the Gurney Heater Mfg. Co., 200 Franklin St., Boston, Mass.

Books for builders, mechanics, engineers and electricians aiming in a clear way to add to their readers' knowledge, are described in a booklet published by Theo. Audel & Co., 65 W. 23d St., New York City.

Weather Strips of approved type and their installation form the subject of a pamphlet illustrated with details, issued by the Hoffbauer Co., Inc., 101 Park Ave., New York City.

Boilers embodying many advantageous features are described in Catalog 51 of the Molby Boiler Co., 35 E. 42d St., New York City. The catalog is copiously illustrated.

Stucco for exterior and interior finish is familiar to every up-to-date builder. Its use in attractive homes as a wall finish and a flooring are taken up in an exceptionally lucid manner by the Rocbond Company, Van Wert, Ohio.

Fireplaces and mantels may be built to fit into any period design whatsoever. The various types of construction and finish may be examined in the catalog furnished by the Brecher Co., Inc., 433 W. Jefferson St., Louisville, Ky.

Insulation more than pays for itself aside from being part of better building practice. Balsam Wool is the new type of such insulation and it is made of ground up wood fibre. Details of this interesting product are sent out by the Wood Conversion Co., Cloquet, Minn.

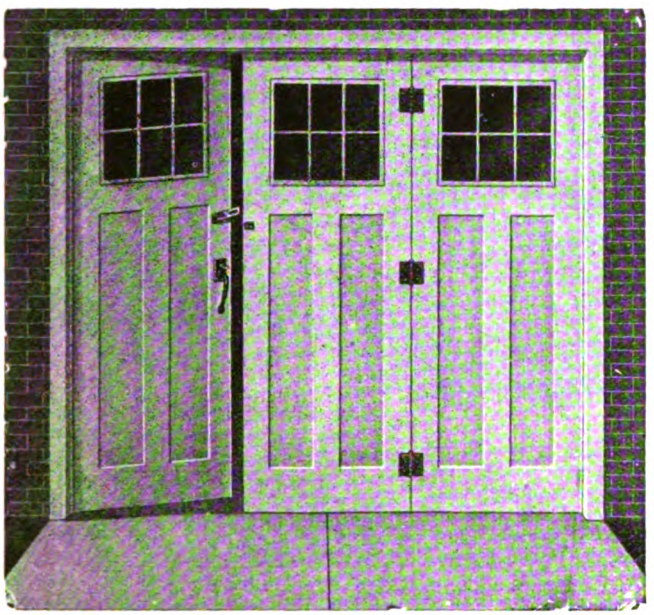
Wall Coverings include that very popular decorative medium, **Sanitas**. Actual samples upon which tests may be made to prove its beauty and washable quality are distributed by the Standard Textile Products Co., 320 Broadway, New York, N. Y.

Pivoted Steel Sash are included somewhere in the specifications of every reputable industrial building project. Their utility, beauty and installation are brought out pictorially and in detail in the new book of David Lupton's Sons Co., Allegheny Ave., Philadelphia, Pa.

Insulating Lumber sheets are decorating mediums of great worth. For the small home and the large pretentious one as well they have established themselves as dependable coverings. "The Hidden Comfort of Costly Homes" deals with the product of the Celtotex Co., 645 N. Michigan Ave., Chicago, Ill., in an entirely clear manner.

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Garage Door Hanger No. 806



National Equipped

The Finishing Touch to the Up-to-date Garage!

Set 806 Includes

- No. 27 Latch
- 1 only Swivel Hanger
- 6-foot Braced Rail
- 4½ pair 4x4-inch Jap.
- No. 505 T.P. Butts
- 1 only No. 820 Chain Bolt
- 1 only No. 830 Foot Bolt
- 1 only No. 5 Pull
- 1 pair No. 40 Padlock Eyes
- All necessary bolts and screws. Weight, 21 pounds.

Builders and home owners who have experienced the advantages of the National Garage Door would hardly think of any other but National for new or old jobs.

The 806 is a good looking, substantial door set. Doors swing into jamb against stops. They hug the wall closely, and they are absolutely weathertight.

Single door operates for convenient access without disturbing the other two.

The National Door Set is without a doubt, and users will testify to this, the most convenient, practical and economical garage door set ever produced.

Our Garage book contains valuable data and information on garage construction. Write for it.

NATIONAL MFG. CO., STERLING, ILL.

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Some More Useful Catalogs

Hollow Tile building construction is best recognized for its fireproof and durable qualities. "Behind the Stucco" is the name of the new booklet dealing with Natco Hollow Tile features. It is put out by the National Fireproofing Co., Flatiron Building, New York, N. Y.

Expansion Bolts find an important place in the equipment of the builder. "Dryvins" are devices for fastening things to masonry. The various jobs on which they have proved their worth are brought out in a leaflet of the Star Expansion Bolt Co., 147 Cedar Street, New York, N. Y.

Wall Finish in one form or another contributes materially to the beauty of the home. Morene, the wall finish distinctive, is a Portland Cement Product from which builders are obtaining excellent results. Several mailing pieces regarding this are being sent out by the Morene Products Co., Inc., 245 West 28th St., New York, N. Y.

Zinc Products used as roofing and leaders have time and time again outlasted the rest of the house. "Once in a lifetime" and the "Roof That is Ever New" deal with the durable features of products of the New Jersey Zinc Co., 160 Front St., New York City.

Laundry Chutes that are glass lined make sanitary, durable, economical and distinctive installations. For taking up these features from the stand point of the builder, a new booklet is being distributed by the Pfaudler Co., Rochester, N. Y.

Gas Heaters in one form or another have been used by home owners and builders for many years. The Sheet Flame Radiant Heater combines many standard features and several new ones, as well. Information may be obtained from the Radiant Heat Corp., of America, 126 11th Ave., New York, N. Y.

Concealed Beds are a built-in convenience of vast importance to the small home owner. Their beauty, practicability and convenience are taken up in the "Book of Beds" by the Concealed Bed Corp., 58 E. Washington St., Chicago, Ill.

Concrete for farm construction suggests a field in which all builders may participate. The question of permanent satisfaction in farm building is thoroughly discussed in a book published by the Lehigh Portland Cement Co., Allentown, Pa.

Heat Insulation for houses involves a number of signal features about which concise information is desirable. An extremely comprehensive treatise has been prepared and will be sent by the Flax-li-num Insulating Co., St. Paul, Minn.

Lumber in one form or another is always of interest to builders. "Facts in Relation to Lumber" is an educational booklet published by the Southern Pine Sales Corporation, Woolworth Bldg., New York, N. Y.

Cork Board is recommended as insulating material of unusual value. It is a damp resister, heat insulator, fire resister and an excellent stucco and plaster base. This and additional features are described in new literature of the Armstrong Cork & Insulation Co., Pittsburgh, Pa.

Concrete Equipment, including block machinery, power tampers, elevator and feeders, and continuous mixers are listed, illustrated and described in a booklet issued by the Miles Mfg. Co., Jackson, Mich.

Roofing involves many standards of specifications. Illustrating the application of precast reinforced concrete slabs to all types of roof construction is the purpose of the new book of the Federal Cement Tile Co., 608 S. Dearborn St., Chicago, Ill.

Heat Equipment provides a means of increasing the value of the house and every builder should have complete information at hand. The York line of furnaces, etc., is covered in the new catalog of Abendroth Bros., Port Chester, N. Y.

Floor Surfacing Machines are valuable profit making appliances that the enterprising builder appreciates, the Fay Electric Floor machine is described in use for hotels, clubs, schools, etc., very lucidly by the Fay Co., 514 West 57th St., New York.

Door Hardware for special use is solving many builders' problems. New catalogs entitled "Big Door Hardware" and "Sliding and Folding Partition Door Hardware" take up this question and are published by the Richards-Wilcox Mfg. Co., Aurora, Ill.

Heating Equipment is a subject upon which all builders should be posted. The American District Steam Co., North Tonawanda, N. Y., has contributed two valuable books to this phase of the building library.

Iron and Wire Work are unusually fine decorative mediums for interior and exterior use. Grilles, wickets and counter cage work are covered by the "G" Folder of the Dow Co., Inc., Louisville, Ky.

Refrigerating Machines for industrial plants and residences represent a branch of building equipment that very often comes under the jurisdiction of the builder. Information on the machines formerly carried by Johns-Manville, Inc., is now distributed directly by its manufacturers, The Audiffren Refrigerating Machine Co., 90 West Street, New York.

Trucks enable the contractor to keep his several jobs progressing with perfect coordination. Information on the line of Mack trucks is distributed by Mack Trucks, Inc. 25 Broadway, New York.

Bench Jointers help the builder to do better and faster work on his jobs. A new 6-in. portable electric type is described in literature of Heston & Anderson, Fairfield, Ia.

Tank Fittings may now be had that insure noiseless water closet operation. Details concerning the Curtin equipped water closet tank are contained in literature of the A. F. Curtin Valve Co., Medford, Mass.

Electric Fountains in addition to beautifying the home are an extremely healthful feature as well. Various types of humidifying illuminated fountains are described in literature of the John Fink Co., Inc., 104 Lexington Ave., New York.

Safety Treads provide safe stairways and their long life absorbs initial cost. Home owners will appreciate the builder's inclusion of them in the new home. A booklet is distributed by the Universal Safety Tread Co., 40 Court St., Boston, Mass.

Zinc Coated Nails will last a lifetime because they are rust-proof. Builders who wish to learn more of them for roofing work may obtain samples and descriptive matter from the Malleable Iron Fittings Co., Branford, Conn.

Weatherstrips enable the builder to represent his house as a well-constructed, well-protected one. Every prospect is interested in fuel economy and one way of obtaining it is described in the new detail catalog of the Chamberlin Metal Weatherstrip Co., Inc., Detroit, Mich.

Lightning Rods may beautify the home as ornamentation in addition to insuring safety. Copper and galvanized sectional rod as well as ornaments of bronze are described in a catalog of the Mast Lightning Rod Co., West Milton, O.

Weatherstrips prove valauble aids in selling the new house. Their attention-getting features as well as information regarding dealer proposition are obtainable from Burrowes Weatherstrip Co., 1930 So. 52d St., Chicago.

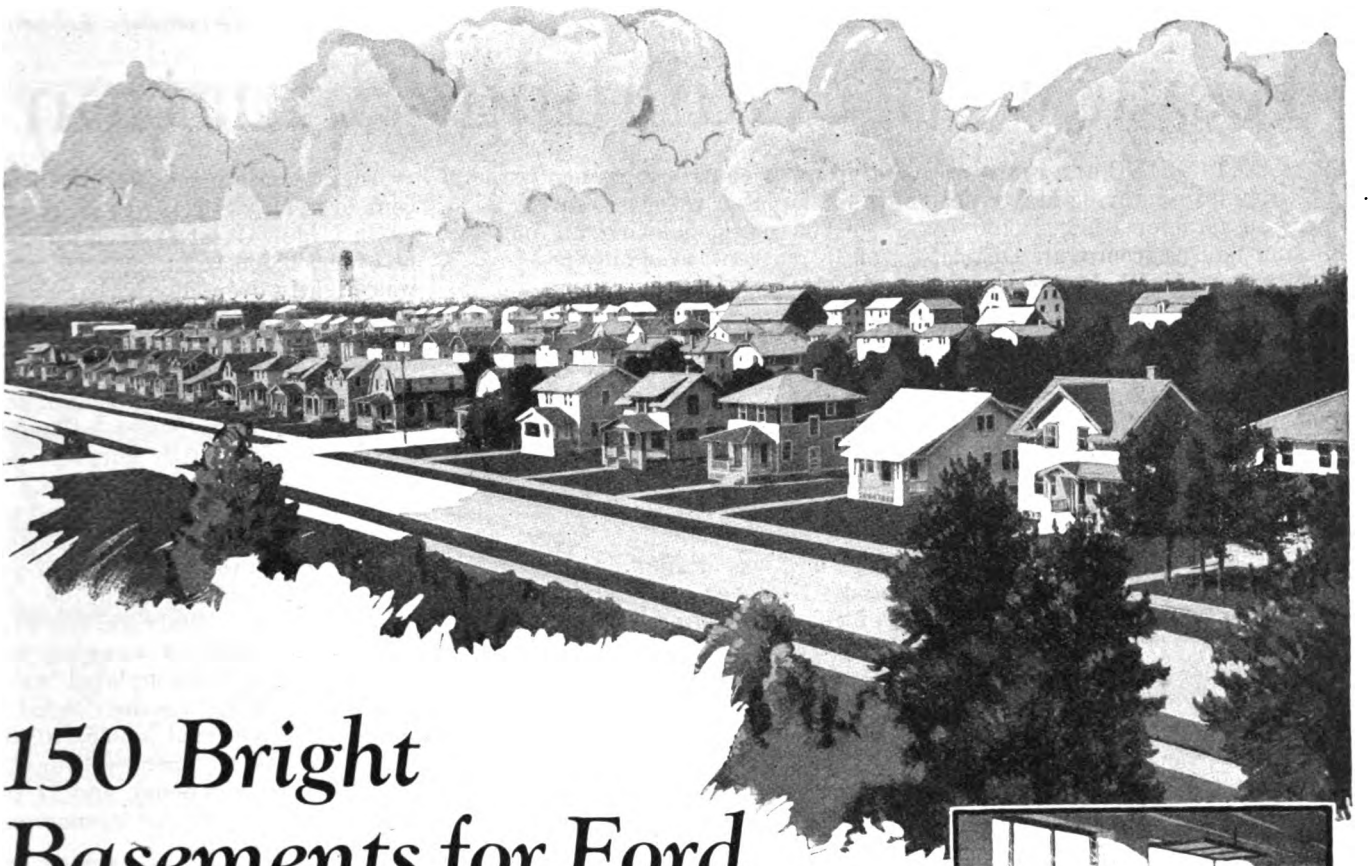
Ventilators mean added comfort to the housewife and benefit the builder who installs them. Electric exhaust fans for the small home are described in a leaflet "Ventilating Through the Kitchen," published by Ilg Electric Ventilating Co., 2850 No. Crawford Ave., Chicago.

Laundry Equipment appeals to the prospective owner from a convenience angle. The builder should acquaint himself with the laundry driers, electric washing machines and ironing machines described by the Chicago Dryer Co., 2206 No. Crawford Ave., Chicago.

Concrete building without forms presents an easy, economical method to the contractor. A system of putting up double monolithic walls using a special machine in place of forms is treated in a booklet issued by Van Guilder System Concrete Building, Inc., 15 E 40th St., New York.

Sash Sustainers take the place of weights and insure many years of unbroken window operation. Information on an economical, light weight sustainer may be had from the Austral Window Co., 101 Park Ave

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150 Bright Basements for Ford



In this great housing project of the Ford Company at Iron Mountain, Mich., there are 150 new homes, all equipped with Fenestra Basement Windows—150 brighter, more cheerful, more useful basements!

None of these houses are of the more costly kind where steel basement windows are a matter of course. They represent the average type, where economical construction is a necessity. Yet Fenestra Windows were used throughout.

Isn't this evidence that steel windows cost no more than wood windows installed? And that the "home owner" advantages they give in extra light, in better ventilation, in fire and intruder-resistance, easy operation, etc., are advantages that the speculative builder needs to help him sell the houses he builds?

Today there is every reason why you should use steel instead of wood—it makes a better window *that costs no more!* And you can get Fenestra Basement Windows easily, quickly, conveniently—your local lumber or building supply dealer will deliver them with your other materials. Try them in your next building operation.

DETROIT STEEL PRODUCTS COMPANY, B-2252 East Grand Boulevard, Detroit, Michigan

Factories in Detroit, Mich., Oakland, Calif., and Toronto, Ont., Canada.
For Canada: Canadian Metal Window & Steel Products, Ltd.,
160 River St., Toronto, Ont.

Fenestra

for homes, large and small
shops and small factories
garages and service stations
stores and other buildings

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Review of Building Situation

CONTINUING at a record rate, building during May reached a total of $496,024,100 (excluding figures from Gulf District), according to F. W. Dodge Corporation. This monthly total was the second highest in the history of building in the United States; exceeded only by April of this year. The increase over May last was 18 per cent.

Residential took $231,182,200, or 47 per cent of the total, with commercial second, taking 16 per cent, and public works, educational and industrial commanding the remainder proportionately. Contemplated work ($712,853,000) was only slightly under April and 24 per cent over a year ago. For so late a month the total was unusually large.

In New England, building work boasted a total of $46,222,300 or 16 per cent in excess of April; residential work contributing nearly half. Contemplated work passed the $50,000,000 mark, showing an increase of 13 per cent. over May last.

New York District reports a 3 per cent increase over May, 1924, a total of $112,617,000, with residential work commanding 56 per cent. Contemplated work was $177,356,300, showing an astounding increase of 59 per cent over May last.

Construction started in May in Mid-Atlantic District was $52,092,200; 17 per cent over a year ago. One-half was attributable to residential. New work showed an increase of 24 per cent over April and 66 per cent over May last.

May total in Pittsburgh District was 7 per cent over May, 1924, or $60,977,600, of which $29,642,800 went for residential. Contemplated work was reported somewhat below the April figure.

An astounding increase of 46 per cent over May, 1924, was represented in Middle West District's report of $139,649,700. Contemplated work was slightly over May a year ago.

The largest monthly record since June, 1923, was reported from the Northwest ($12,629,600, or 39 per cent over April); 36 per cent of this was expended for homes. Contemplated was practically equal to last May and somewhat under April.

In South Atlantic District another highest monthly total was reported. The increase over April was 41 per cent. and the total $71,835,700.

Texas District totals include $12,687,800 in contracts awarded and $17,624,000 in contemplated work. The former figure was distributed as follows: 45 per cent, or $5,670,400, for residential; 17 per cent, or $2,207,000, for educational, and 13 per cent, or $1,603,800, for commercial.

Record of May, 1925, Building Contracts Awarded

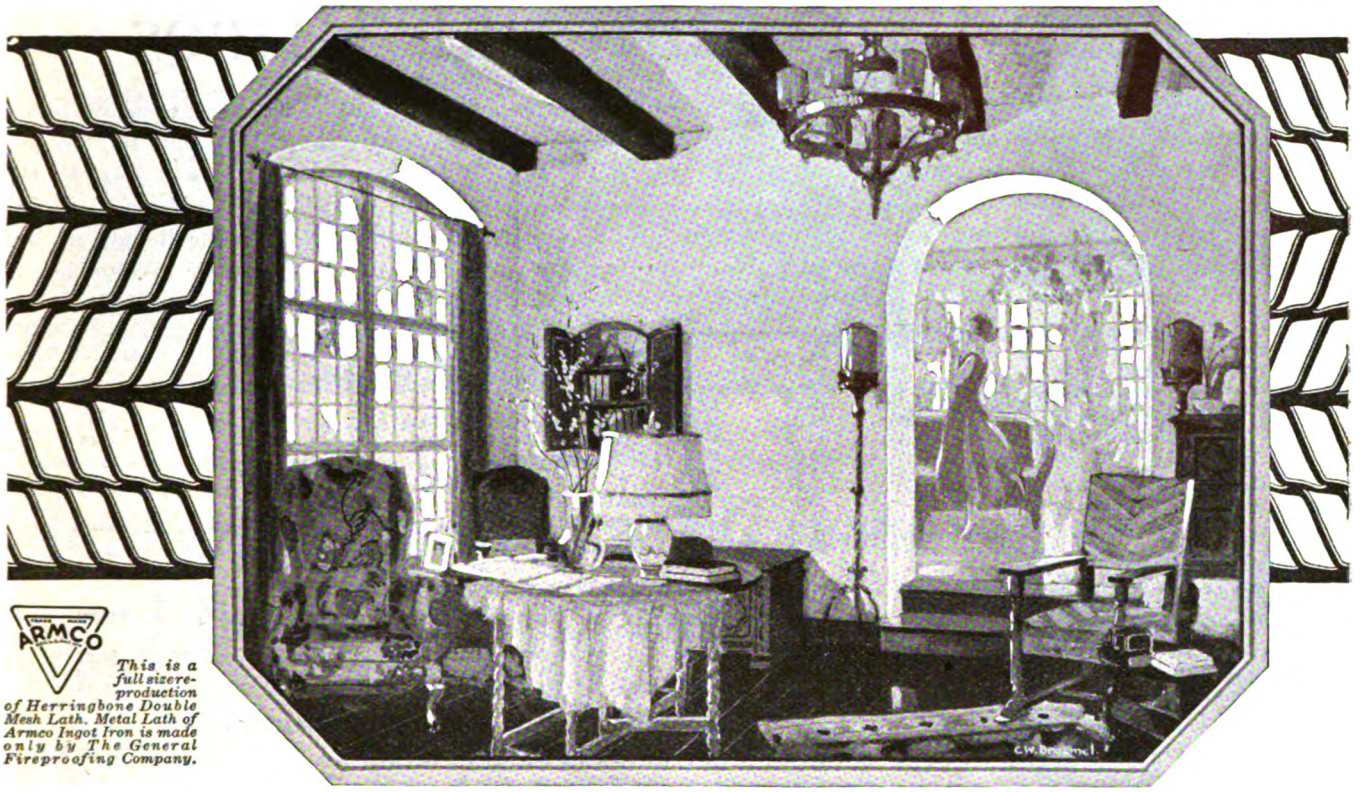
Classification of Buildings	SECTION OF COUNTRY New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North West District	South Atlantic District	Gulf District	Totals
Commercial Buildings..	$10,953,400	$22,581,800	$3,524,400	$7,403,200	$24,868,900	$776,600	$10,171,800	$1,603,800	$81,883,900
Educational Buildings.	3,228,900	6,546,400	2,903,300	4,036,700	8,175,500	884,500	3,537,700	2,207,000	31,519,700
Hospitals, etc.	1,131,800	1,784,500	679,700	851,600	2,821,500	.....	543,500	707,000	8,519,600
Industrial Buildings ..	1,979,800	5,827,500	4,767,600	2,490,600	8,227,900	401,900	3,866,700	303,500	27,865,500
Military and Naval...	.....	65,000	100,000	18,000	173,700	20,000	90,000	.....	466,700
Public Buildings.....	1,618,400	783,000	187,500	71,000	1,296,200	302,300	291,000	179,500	4,728,900
Public Works	3,880,300	4,249,300	6,563,700	13,205,000	26,448,700	2,357,400	21,055,000	656,600	78,416,000
Religious & Memorial..	762,500	3,844,100	1,556,000	2,225,300	4,528,000	176,500	1,834,500	473,500	15,400,400
Residential Buildings..	20,978,600	63,290,700	27,704,100	29,642,800	58,351,800	4,506,700	26,707,500	5,670,400	236,852,600
Social & Recreational.	1,688,600	3,644,700	4,106,200	1,033,400	4,757,500	3,203,700	3,738,000	886,500	23,058,600
Total	$46,222,300	$112,617,000	$52,092,200	$60,977,600	$139,649,700	$12,629,600	$71,835,700	$12,687,800	$508,711,900

Building Projects Contemplated, May, 1925

Classification of Buildings	SECTION OF COUNTRY New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North West District	South Atlantic District	Gulf District	Totals
Commercial Buildings.	$6,568,100	$39,787,800	$5,902,600	$4,908,100	$21,401,900	$947,100	$9,540,700	$1,212,300	$90,268,600
Educational Buildings	4,635,000	5,627,500	3,801,000	6,815,500	11,218,400	314,100	5,988,400	966,500	39,366,400
Hospitals, etc.	821,000	4,866,000	1,241,500	3,867,500	2,575,500	438,500	636,500	925,000	15,371,500
Industrial Buildings..	2,714,300	5,415,000	3,907,100	3,796,500	8,331,900	390,400	4,747,700	479,500	29,782,400
Military and Naval .	180,000	213,000	80,000	18,000	410,000	44,500	20,000	100,000	1,065,500
Public Buildings.....	1,386,000	1,489,000	711,000	67,000	446,000	107,000	600,000	172,500	4,978,500
Public Works.....	4,603,700	12,847,800	49,207,200	16,593,100	31,010,900	3,310,400	60,765,800	6,658,600	184,997,500
Religious & Memorial.	1,587,500	1,327,600	1,677,000	1,444,500	3,873,500	444,500	2,871,500	402,000	13,628,100
Residential Buildings.	25,261,600	101,159,600	44,436,400	30,633,500	68,709,500	4,851,600	35,171,400	6,112,100	316,335,700
Social & Recreational	3,187,000	4,623,000	3,227,000	2,213,800	12,231,000	189,500	8,416,000	595,500	34,682,800
Total	$50,944,200	$177,356,300	$114,190.800	$70,357,500	$160,208,600	$11,037,600	$128,758,000	$17,624,000	$730,477,000

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Crack-Proof, Mar-Proof Walls



This is a full size reproduction of Herringbone Double Mesh Lath. Metal Lath of Armco Ingot Iron is made only by The General Fireproofing Company.

When Plastered over Herringbone

How discouraging to a home owner to lavish care and thought on the decoration of interior walls, only to find that passing time brings unsightly plaster cracks, checks and disfiguring lath marks.

How much better to specify Herringbone Metal Lath at the very outset, insuring long years of service and beauty for walls and ceilings—satisfaction for the owner—good will for the architect and builder.

The fine cross-web mesh of Herringbone Metal Lath gives each square inch of surface a rigid unyielding reinforcement. It literally becomes embedded in the plaster and holds with an unyielding grip. Sudden jars—ordinary settling—won't crack the plaster. And the fire-resisting qualities of Metal Lath construction are well known.

Herringbone is not expensive either. It costs slightly more than ordinary wood lath but saves plaster, and it brings down labor costs, since it comes in large stiff sheets of steel or Armco Ingot Iron which are easily and quickly handled.

Every architect and builder will find much of interest and value in "Building for Permanence and Beauty" and the GF "Fireproofing Handbook." Both booklets will gladly be sent, on request.

Other GF Materials:

Self-Sentering—A combined form, lath and reinforcement for concrete floors and roofs.

Trussit—A reinforcement for solid partitions.

GF Expanded Metal—A concrete reinforcement.

GF Steel Tile—For concrete floors.

GF Steel Lumber—Used in place of wood joists and studs.

GF Steel Channel—For fireproof partitions and ceilings.

GF Peds—Spot grounds for attaching trim to concrete and plaster.

GF Duplex Bridging—For wood joist floors.

GF Waterproofings—For concrete and masonry.

THE GENERAL FIREPROOFING COMPANY, *Youngstown, Ohio*

Branches: New York · Chicago · Philadelphia · Boston · Cleveland · Los Angeles · St. Louis
Omaha · Kansas City · Minneapolis · Milwaukee · San Francisco · Syracuse · Atlanta · Mexico City
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Member National Council for Better Plastering

BETTER PLASTERING — METAL LATH TO REINFORCE AND PRESERVE

GF Herringbone Doublemesh Lath

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Trend of Material Prices

THE following are wholesale prices of basic building materials in the three markets which set prices for the rest of the country.

These prices are presented to show the trend of the wholesale market, which forecasts prices in the retail market. They are not prices which the average contractor can buy at, but are quoted to show him the movement of materials so that he can buy to better advantage. All prices are for carload lots, F. O. B. market quoted, unless otherwise noted.

Following in conjunction with the Review of Building Situation, these prices will prove invaluable.

NEW YORK PRICES

	May 25	June 25
LONG LEAF YELLOW PINE—		
B. & Better Edge Grain Flooring, 25/32x2¼" Face	$90.50	$86.00
Dimensions, S1S1E, No. 1 Common, 2x4 in., 10..	43.75	43.75
Timbers, Merchantable, 05, 12x12", 10 to 20'....	54.00	53.00
B. and Better Ceiling, ½x3¼.....	42.00	42.00
B. and Better Partitions, ⅜x3¼ in.....	56.00	56.00
B. and Better Finish, 1x4".....	68.25	68.25
No. 1 Common Boards, 1x8".....	49.75	49.75
NORTH CAROLINA PINE—		
No. 2 and Better Flooring, 13/16x2½".....	$62.00	$62.00
Roofers, 13/16x5½ in.....	36.50	33.50
DOUGLAS FIR—		
No. 2 Clear and Better V. G. Flooring, 1x3"....	$66.50	$66.50
No. 1 Clear V. G. Flooring, 1x4 in.....	69.00	69.00
No. 2 Clear and Better Ceiling, ⅝x4 in.....	41.50	41.50
No. 2 Clear and Better Novelty Siding, 1x6"....	54.00	54.00
No. 2 Clear and Better V. G. Stepping.....	91.25	91.25
WESTERN RED CEDAR—		
B. C. Perfection Shingle, per M.....	$7.23	$7.23
Washington Perfection Shingles, per M.....	6.83	6.83
Clear Bevel Siding, ½x6 in.....	45.25	45.25
CANADIAN SPRUCE—		
No. 1 Lath, 1½".....	$7.88	$7.50
Dimensions, 2x4", 10 to 16'.....	36.50	36.50
HARDWARE FLOORING—		
Clear Quartered White Oak, 13/16x2¼".....	$152.50	$152.50
Clear Plain White Oak, 13/16x2¼".....	105.50	102.00
Clear Plain Red Oak, 13/16x2¼".....	99.50	93.50
Clear Maple, 13/16x2¼".....	101.00	101.00
(All lumber prices furnished by The Lumber Manufacturer & Dealer)		
COMMON BRICK—		
Per M. f. o. b. job.....	$17.50	$19.50
PORTLAND CEMENT—		
Bbls. in car lots to contractors, delivered.....	$2.60	$2.50
STRUCTURAL STEEL—		
Per 100 lb. at warehouse.....	$3.24	$3.24
CRUSHED STONE (cu. yd.)—		
¾ in.....	$3.25	$3.20
1½ in.....	3.15	3.10
WALL BOARD—		
Per 1,000 sq. ft. in lots under 1,000 sq. ft.....	$50.00	$50.00
Per 1,000 sq. ft. in lots 1,000 to 2,500 sq. ft.....	45.00	45.00
METAL LATH—		
2.2 lb.—26 gauge, price per 100 sq. yd. delivered..	$0.21	$0.21
2.8 lb.—24 gauge, light, price per 100 sq. yd., deliv.	0.25	0.25
3.4 lb.—24 gauge, heavy, price per 100 sq. yd. del.	0.29	0.29
(Add 5 cents per sq. yd. for galvanized.)		
LIME (Hydrate)—		
Finishing, per 50 lb. bag.....	$0.58	$0.60
Masons, per 50 lb. bag.....	0.43	0.40
SAND AND GRAVEL—		
Sand (per cubic yard).....	$2.15	$2.15
¼ in. Gravel (per cubic yard).....	3.00	3.00
1½ in. Gravel (per cubic yard).....	3.00	3.00
FACE BRICK—		
Tapestry (delivered).....	$47.00	$47.00
Harveale (delivered).....	43.00	43.00
Caledonian (delivered).....	45.00	45.00
Smooth Grey (delivered).....	46.00	46.00
Fiske Lock, f. o. b. factory.....	39.50	39.50
SHINGLES—		
Asphalt, Single (per square).....	$6.50	$6.50
Asphalt strip (per square).....	7.00	7.00
STAINED WOOD SHINGLES—		
10 in. Extra Clear (per square, delivered).....	$10.75	$10.75
18 in. Eureka (per square, delivered).....	11.00	11.00
18 in. Perfection (per square, delivered).....	12.00	12.00
24 in. Royal (per square, delivered).....	12.00	12.00
VITRIFIED SEWER PIPE—		
4 in. (cents per foot).....	$0.12	$0.12
6 in. (cents per foot).....	0.18	0.18
SLATE ROOFING—		
Slatington, 8x16 in. per sq. at quarry.....	$8.40	$8.40
CORNER BEADS (Galvanized)—		
Per foot.....	$0.04	$0.04
WALL TIES (Galvanized)—		
Per thousand.....	$3.75	$3.75
FLUE LINING—		
8½ x 8½ in., per foot.....	$0.34	$0.34
8½ x 13 in., per foot.....	0.45	0.45
HOLLOW TILE—		
8 x 12 x 12 in. heavy. Each, delivered.....	$0.25	$0.25
HAIR—		
Per bushel.....	$0.60	$0.60
PLASTER BOARD—		
32 x 36 x ⅜ in. Each.....	$0.26	$0.26
MAGNESITE STUCCO—		
Per ton.....	$43.00	$43.00
TILE—		
1 in. Square or Hexagon, White, per sq. ft...	$0.27	$0.27
3 x 6 in. White Wall.....	0.60	0.60
8 x 8 in., Red Floor.....	0.45	0.45

CHICAGO PRICES

YELLOW PINE—		
Boards, 1 x 8, No. 1 Com.....	$45.00	$40.00
Ceiling, ⅝ x 4 B. and Btr.....	44.00	42.00
Dimension No. 1, 2 x 4, 12 to 14 ft.....	32.00	31.00
Drop Siding, 1 x 6, B. and Btr.....	52.50	51.00
Finish, 1 x 4, B. and Btr.....	62 00	58.00
Flooring, B. and Btr. E. G., 1x3.....	90.00	85.00
Lath, 4 ft., No. 1.....	6.00	6.20
Timbers, Long Leaf No. 1, 10-20 ft., S4S, 6x12 to 12 x 12.....	53.00	50.00
HARDWOODS—		
Maple Flooring, 13/16 x 2¼ in. clear.....	$99.00	$99.00
Oak Flooring, ⅜ x 2, Cl. P., White.....	66.00	66.00
Oak Flooring, 13/16 x 2¼, Cl. Pl., White.....	101.00	101.00
REDWOOD—		
Bevel Siding, S1S1E, 8 ft., 20 ft., ½ x 4, clear	$34.25	$34.25
Finish, S2S or S4S, 1 x 6 to 8 in., clear.....	84.50	82.50
WESTERN RED CEDAR—		
Bevel Siding, ½ x 4, clear.....	$35.00	$35.00
Shingles, extra clear, 16 in.....	4.35	4.41
COMMON BRICK—		
Per M. f. o. b. job.....	$12.00	$12.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers.....	$2.20	$2.20
STRUCTURAL STEEL—		
Per 100 lbs. at warehouse.....	$3.00	$3.00

ST. LOUIS PRICES

YELLOW PINE—		
Boards, No. 1 Com. 1 x 4.....	$40.75	$40.75
Dimensions, No. 1, S1S1E, Short Leaf, 2 x 4 in. 12 x 14 ft.....	31.50	31.50
Finish, S2S, B. & Btr., 1¼ & 1½x5, 10 & 12 ft..	87.00	87.00
Flooring, B. and Btr., E. G., 1 x 3.....	80.00	78.00
Flooring, B. and Btr., F. G., 1 x 3.....	59.00	58.00
Lath, 4 ft., No. 1.....	5.35	5.60
Timbers, No. 1, rough, short leaf, 6 x 12 to 12 x 12 in., 10 to 20 ft.....	44.75	44.75
CALIFORNIA REDWOOD—		
Finish, S2S, Cl., 1 x 6 in.....	$84.50	$82.50
Siding, 4 in. Bevel, 8 to 20 ft.....	34.25	34.25
8 in. Colonial.....	66.75	66.75
8 in. Bungalow.....	50.25	47.25
HARDWOODS—		
Oak Flooring, ¾x1½ & 2 in. clear, Qtr. White..	$107.00	$107.00
Maple Flooring, 13/16 x 2¼ in., clear.....	102.50	100.00
RED CEDAR—		
Siding, ½ x 6, clear.....	$42.50	$42.50
Shingles, clears, per M.....	4.46	4.46
COMMON BRICK—		
Per M. f. o. b. job.....	$18.00	$18.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers.....	$2.30	$2.30
STRUCTURAL STEEL—		
Per 100 lbs. at warehouse.....	$3.15	$3.15

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The J. C. Nichols Investment Company Model Home
808 Meyer Boulevard, Kansas City, Mo.
(One half inch Flax-li-num lines all outside walls and one inch Flax-li-num lines the top story ceiling)

Heat Insulation For Houses Has Come to Stay

Builders and Dealers are finding it pays to say
"All my houses are lined with Flax-li-num"

FIFTEEN years ago Flax-li-num was first used to build houses for warmth and fuel economy in winter and coolness and comfort in summer. The heat insulation idea was little known to home owners then. Only a few pioneer builders and dealers pushed it with their clients.

But the idea grew. Today it is the most basic improvement in the house building industry. And today you may build permanently, carefully and for high resale value, and yet if your houses are not *heat insulated* they are not considered well built.

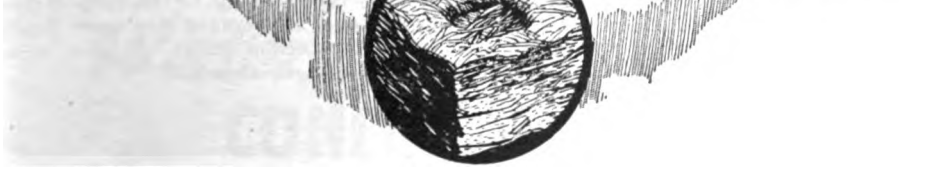
These are the startling facts that builders and dealers are coming to know and use to their own advantage. And good will and increased business is going to the men who are saying, "All my buildings are lined with Flax-li-num,—the heat insulation".

A tremendous difference in fuel costs and in house comfort both winter and summer comes by lining walls and roof with Flax-li-num; savings in fuel that bring heating costs again within reason, and comfort that makes houses stay sold because they are good places to live in—warm, cozy, easy to maintain.

THE FLAX-LI-NUM INSULATING COMPANY
SAINT PAUL, MINNESOTA

Flax-li-num

THE MARK OF THE WELL BUILT HOUSE





Flax-li-num is a thick semi-rigid felted sheet of flax fibres. Flax for the durability and rope like strength of linen fibres; felted to contain the greatest number of tiny caged air cells; and semi-rigid for ease in handling and permanency in position.

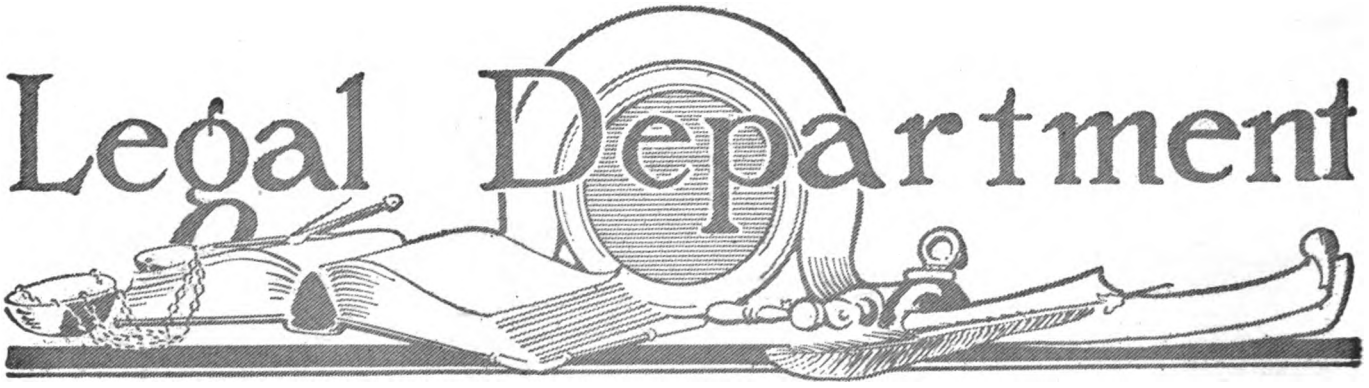


Flax-li-num is more efficient in stopping heat travel into or out of houses than any material of like thickness,—and it is many times as thick as most materials sold for heat insulation. In stopping heat or cold one inch of Flax-li-num is equal to sixteen inches of brick and mortar or to twenty-seven inches of concrete.



The new Flax-li-num book—"Heat Insulation for Houses," shows how radiation may be cut down and boiler sizes reduced by the use of Flax-li-num. It contains the scientific data necessary to advise and convince your clients. Copies of this book are available for builders and dealers requesting same on business stationery. Write for your copy today.

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When Owner Delays in Making Payment as Work Progresses

By Arthur L. H. Street

HUNDREDS of legal problems that are troubling builders to-day have been argued in court at one time or another. The resulting decisions made under conditions similar to the builder's are at the disposal of our readers. This department exists primarily to aid the contractor by offering him advice on legal difficulties. Read the published discussions carefully and send in your queries. The service is without cost and gladly given.

A GENERAL contractor asks us to discuss the legal rights of a contractor where a municipality delays for two or three weeks in making payments for building construction as the work progresses, after receiving the supervising architect's certificates under which the payments are due.

We understand that question is raised concerning extra expense to the contractor, through being compelled to borrow money to carry his payroll and other expenses, and on account of the contractor being prevented from making monthly payments due from him to subcontractors under his contracts with them.

Defaults on the part of a municipality in a case of this kind are governed by the same rules that apply to similar defaults by any other owners under building contracts. We find no set of legal rules under which a public corporation has any greater rights to break its obligations as to time for payments under a contract than has an individual under similar circumstances.

Such defaults give contractors two classes of recourse. If the defaults are serious, they may afford ground for the contractor refusing to go ahead with the work, and for his suing to recover the value of work already performed. It is not meant that every delay in making payment gives the builder a right to cancel his contract. The delay may be so slight as to preclude a right of cancellation. The rule has thus been stated by a standard legal authority:

"Continuous and repeated failures to pay installments at stated periods, as agreed, justifies an abandonment by the builder, notwithstanding the contract provides that the work shall be steadily prosecuted without intermission; but it has been held that the builder is not justified in abandoning the contract on the non-payment of an installment that is due, unless the contract so provides. But of course the builder is not entitled to rescind and abandon the contract unless there has been some wrongful act or default on the part of the owner, as where the delay in payment is a reasonable one, or the amount due is disputed." (9 Corpus Juris, 726.)

An alternative remedy of the contractor, and the one which ordinarily should be adopted, is a claim against the owner for interest for the time that payments have remained overdue. That would seem to be the proper recourse, ordinarily, in a case like that mentioned by the gentleman who raises these questions.

It is a general rule that the measure of damages for failure to pay money when payment is due under a contract is interest for the time payment is wrongfully withheld. And it seems that, in the absence of exceptional circumstances, this general rule applies in cases of the kind here under consideration. Whether the general contractor be required to borrow money to pay his workmen, materialmen and subcontractors or not his usual and natural loss is the loss of the use of the money which should be paid to him by the owner.

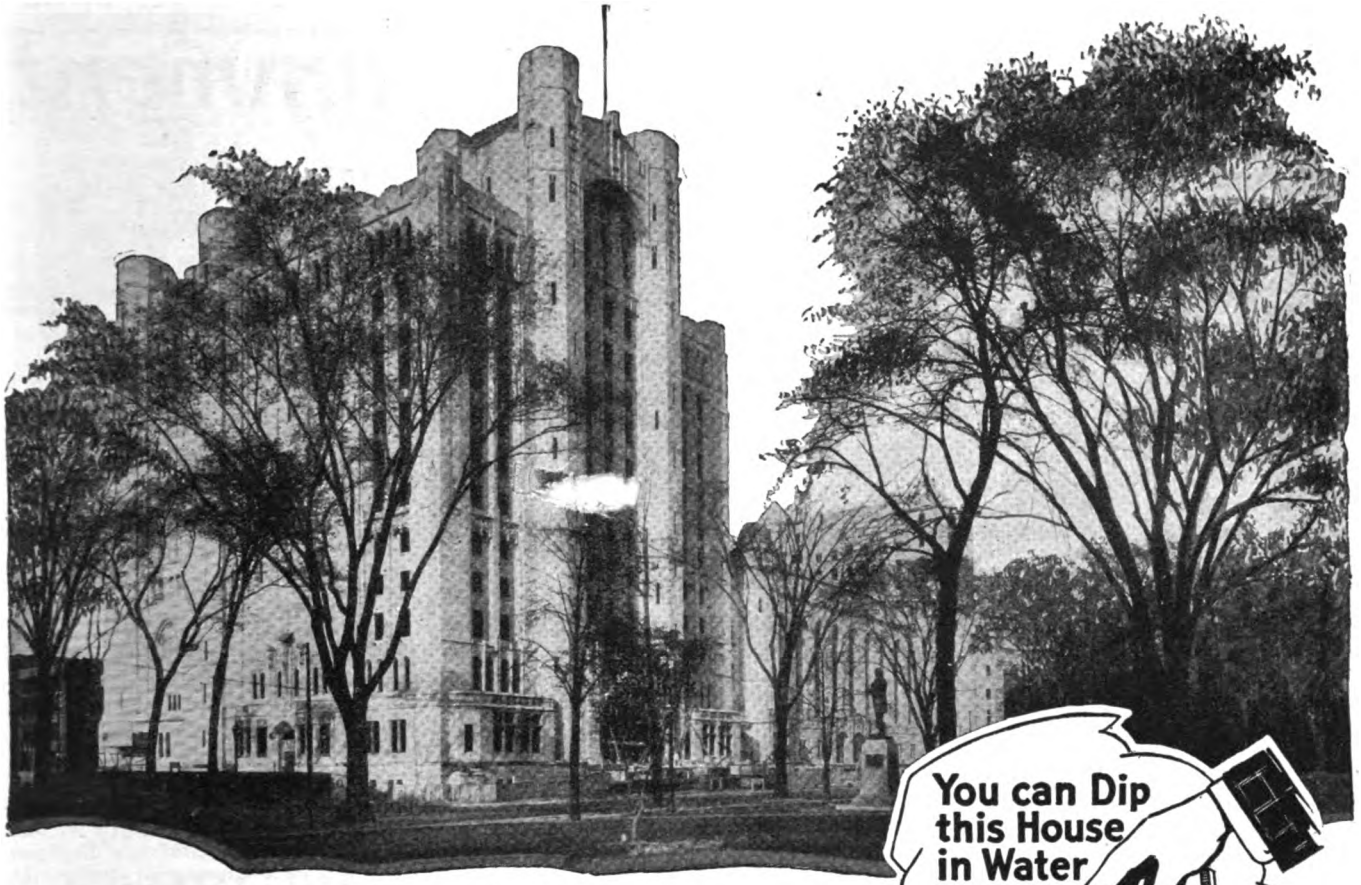
It may be that if an owner should withhold payment knowing that the result would involve special and unusual loss as where it is known that the contractor, by reason of a financial panic throughout the country, cannot borrow funds, thereby entailing a sacrifice of his property, the owner might be liable for all special damages suffered by the contractor and contemplated by the owner in withholding payment. But in our judgment the circumstances will be extremely rare when any such rule can be applied.

Ordinarily, the contractor will be in a position to assign payments that are due or to become due, as security for a loan that will enable him to meet the demands of his creditors. He can then seek reimbursement against the owner for the interest loss entailed. But we do not believe that the contractor's inability to borrow money, or to borrow on favorable terms, can ordinarily make the owner's liability to him any greater than if the contractor had ample funds of his own to meet his obligations as they mature.

In dealings with public, or even private, corporations it is conceivable that there may be an implied understanding under which a delay in making payments after receipt of the architect's certificates would be reasonable. For instance, if it be contemplated that it will be necessary for a committee, board, council, or other body to meet and order an appropriation from the corporation's treasury after the certificate is filed, that would imply an understanding that there would be such delays in making payments as fairly necessary on account of the body not being in session on filing of the certificate.

On the other hand, in the absence of some such understanding as this, it would seem to be up to the corporation to arrange in advance to have funds ready for disbursement at the time specifically agreed upon.

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The Masonic Temple, Detroit, Mich.
George D. Mason, Architect.

Basements 30-ft. underground waterproofed with Truscon Waterproofing Paste.



Waterproof Concrete Is Permanent

Concrete is excellent, but it is not waterproof. Absorption of moisture, resulting in expansion and freezing, is sure to cause disintegration. Exposed concrete, whether below or above grade, should be integrally waterproofed with Truscon Waterproofing Paste, then there is no chance for disintegration. Such concrete is permanent. Truscon Waterproofing Paste assures positive results, is simple to use and pays for itself many times over. Write for latest facts on waterproofing concrete.

Truscon Maintenance Service

Truscon specializes on the maintenance of buildings and equipment. Truscon Engineers will give you useful suggestions free. Write today.

THE TRUSCON LABORATORIES
216 TRUSCON BLDG. DETROIT, MICH.

Other Truscon Laboratories' Products are: **StoneTex** for beautifying and rainproofing stucco, concrete, brick or masonry; **Bar-Ox,** an inhibitive steel paint; **Agatex** floor hardener; **Asepticote,** washable floor paint; and a complete line of paints, varnishes, enamels, and other building maintenance products.

TRUSCON
Waterproofing Paste
CONCENTRATED

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News, Notes, and Comment

Prophesies Universal Use of Gas

MR. H. C. ABELL, President of the American Gas Association, prophesies that in a few years this country will use gas entirely for industrial and home use. Speaking before the convention of the Southwestern Public Service Association at Houston, Texas, he said in effect: "America will be the first nation to have its homes heated by gas; will be the first nation to discard ice for gas refrigerators the first to universally adopt temperature method of cooking food by gas and the first to outlaw smoke, soot and ashes by using gas fuel."

He brought out the public realization of our national resources will make for the tremendous growth in the use of gas. During the last ten years industrial use of gas has jumped 1000% and 1925 promises an even higher record in consumption. Previously the home use of gas has been very common while in industrial use a field has been opened that for many years will be without limit.

Regional Planning Bill

GOVERNOR SMITH of New York has signed a bill permitting the establishment of regional planning boards by any county, and the cities, towns and villages of any county in the State. This bill was introduced by Senator Williams and was sponsored by the State Commission of Housing and Regional Planning.

The function of these boards will be to study the needs and conditions of regional and community planning and zoing in such counties. The communities are authorized to raise the necessary funds for this purpose by taxation.

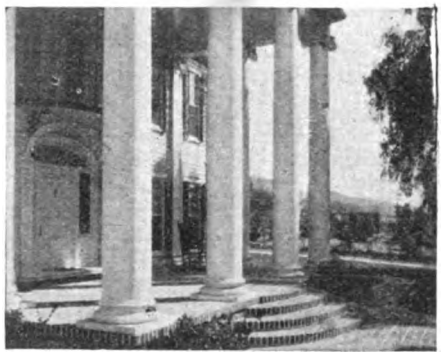
Southern Pine Assn. Adopt Grade-Mark

GRADE-MARKED and trade-marked Southern pine lumber and timber, certified by the manufacturer and guaranteed as to quality by the official inspection service of the Southern Pine Assn., became an accomplished fact with action taken at the tenth annual meeting of the Association in New Orleans recently. Grade-marking was included as one of the chief features of the National Lumber Standardization program.

On the end of each piece of lumber or timber produced by a subscriber mill to the Association there will be plainly marked a number within a circle, which identifies the mill producing the lumber, the letters "S P A" as the official symbol of the Association, and the grade—for example: "B & BTR" for B and Better, or "No. 1 COM" for No. 1 Common, whatever the grade may be. The circle and the Association symbol have been copyrighted.

A Correction

THIS illustration recently appeared in an advertisement published in this magazine by the California White and Sugar Pine Manufacturers' Assn. Through a regrettable error in preparing their advertisement, the name of Mr



Porch for residence of Mr. Mattison B. Jones, of Glendale, California Photo by Mott Studios, Los Angeles. Lucius A. Phillips, Los Angeles, designer and builder.

Phillips did not appear in connection with the same, but in its place the name of a firm of Los Angeles architects who had no connection whatsoever with the designing or building of the residence. Mr. Phillips is entitled to full credit for his excellent work in designing and building this residence.

Western Electric Open Kansas City Home

THE new Western Electric Supply Distributing House was recently opened in Kansas City, Kan. The building is of attractive design and has 44,000 sq. ft. of floor space as against the 2,500 sq. ft. of the first house established in 1903.

Standardization of Time Limit On Bids

THE Southern California Chapter of the Associated General Contractors of America have printed for distribution a schedule showing the number of days necessary for contractors to complete bids for various types of building work. This, it is hoped, will serve to eliminate the exorbitant demands of architects regarding time limits on bids.

Record Plate Glass Production

THE end of the year 1925 will see the establishment of a new twelve months production record for the manufacture of plate glass in this country. According to Mr. P. A. Hughes, Secretary of the Plate Glass Manufacturers of America, the total for the year will be between 105,000,000 and 110,000,000 square feet—enough plate glass to lay a crystal roof over a ranch of 2,500 acres. A large proportion of this figure is attributable to the use of plate glass in the automobile industry.

Of Trade Interest

THE Chain Belt Company of Milwaukee, manufacturers of mixers, conveyors, and elevator machinery has announced the appointment of Moriarty Bros., 208 Knapp St., Toledo, O., as their new representative in Toledo, Ohio; also, the appointment of Mr. Fred S. Van Bergen as their representative at Minneapolis, Minn., 614 Builders Exchange Bldg. Rex concrete mixers will continue to be distributed by Wm. H. Ziegler of Minneapolis, Minn.

The Remmel Manufacturing Co., have appointed as Sales Manager Mr. H. W. Keyes, formerly Assistant Sales Manager of the Worthington Pump and Machinery Corp. In his former capacity he acquainted himself with the mixer industry as Worthington engine representative to mixer manufacturers and equipment distributors.

The U. S. Gypsum Co., have recently put in full operation a new lime plant located at Cordova, Ill. The plant's output will be about 125 tons per day masons' hydrate and it will be the third of the company's manufacturing locations.

The T. L. Smith Company announced the appointment of Mr. G. C. Kenney as Sales representative in and around Kansas City, Mo. This territorial office will be at 410 New York Life Bldg., Kansas City. The Bunting Hardware and Machinery Co. will continue to handle the complete line of Smith Tilting and Non-Tilting Concrete Mixers.

Alfred W. Lockwood has joined the sales organization of the Bridgeport Brass Co., Bridgeport, Conn., as a special representative, handling brass pipe and flush valves. For some years past Mr. Lockwood was connected with Cauldwell, Wingate and Co., New York contractors.

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Good Business—Big Profits

Burrowes Metal Weatherstrips

have offered many salesmen the way to a greater income. You can leave the beaten path and take the short-cut to more money by taking the agency for this finest of all weatherstrips.

Superior Product

You don't have to take our word for it. BURROWES METAL WEATHERSTR[illegible] the enthusiastic endorsement of many [illegible]ding architects and contractors.

Beat Competition

This fact, combined with the advantages apparent when you show them, enables you to outstrip competition everywhere.

Every House Needs Them

With present high prices of coal, every householder will be a good prospect. Comfort as well as economy is a consideration.

Good Profits

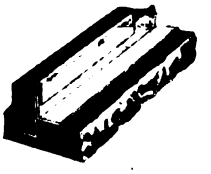
Our long experience and excellent financial standing enable us to offer you most attractive profits. Our plant is strictly modern throughout, and production costs are low.

Financial Responsibility

Remember that when you are a Burrowes representative, you can be proud of your connection, and sure your orders will be filled promptly and reliably.

NOW IS THE TIME FOR YOU TO ACT

This is the ideal time for you to become a Burrowes agent. Householders will listen eagerly when you tell them of a way to cut down next winter's fuel consumption. Get into the field and start cashing in on the reputation and quality of BURROWES METAL WEATHERSTRIPS.

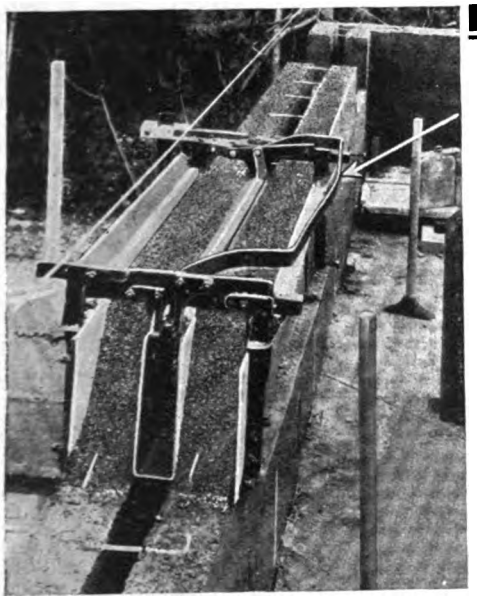


BURROWES WEATHERSTRIP CO.

2161 N. California Avenue **Chicago, Ill.**

VAN GUILDER MACHINES

The Greatest Single Advance in Building Construction



Filled machine on wall. Arrow indicates lever which, when lifted, automatically releases machines from wall by collapsing inner core and expanding outer plates. This allows the machine to be slid forward instantly.

Van Guilder machines build a **DOUBLE MONOLITHIC CONCRETE** Wall separated by a continuous sealed air space 0' 2½" wide. Note section of wall at base of ad.

NO FORMS! Van Guilder machines eliminate forms of every type. **NO MORE SAWING, NAILING, ERECTING, SPREADING, STRIPPING!** All these operations done away with by using Van Guilder Machines.

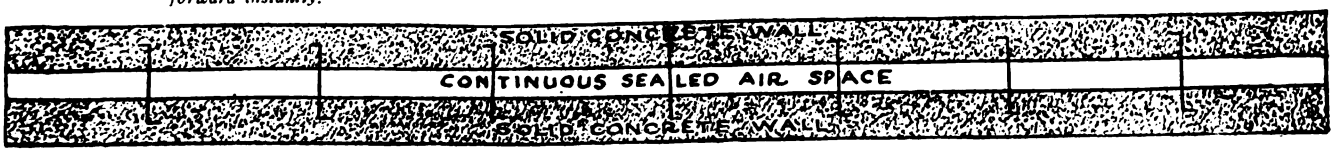
METHOD OF OPERATION: Place machine as illustrated on concrete footing. Fill machines with concrete. Tamp down. Then lift releasing lever, indicated by arrow, which immediately collapses inner core and expands outer plates. Without loss of a minute's time, the machine is moved along the wall for another five-foot section and the operation is repeated as above around the building line. The operation of filling and moving machines consumes three minutes.

Over 30,000 buildings have been erected by Van Guilder Machines in the United States alone.

Write for our descriptive booklet.

VAN GUILDER SYSTEM CONCRETE BUILDING, Inc.

15 EAST 40TH STREET **NEW YORK CITY**



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Selected List of Manufacturers' Literature

For the Service of Builders, Contractors, Architects and Engineers

THE publications listed in these columns are the most important of those issued by leading manufacturers identified with the building industry. They may be had without charge, unless otherwise noted, by applying on your business stationery to BUILDING AGE AND NATIONAL BUILDER, 239 West 39th Street, New York, or the manufacturer direct, in which case kindly mention this publication. Either the titles or the numbers may be used in ordering. This list is an editorial feature maintained for the convenience of our readers. It is not a part of the advertiser's contract and BUILDING AGE AND NATIONAL BUILDER assumes no responsibility for its correctness.

(See also Alphabetical Index, page 210)

AIR TOOLS—See Tools, Air

ALUNDUM FLOORS—See Flooring Composition

ARTISTS' MATERIALS—See Drafting Materials

ABBESTOS PRODUCTS

Asbestos Shingle, Slate & Sheathing Co., Ambler, Pa.

2281. *Ambler Asbestos Shingles.* Catalog. 44 pp. Illus.

2282. *Ambler Asbestos Corrugated Roofing and Siding.* Catalog. 36 pp. Standard Purlin Spacing Tables.

2283. *Ambler Asbestos Building Lumber.* 32 pp. Illus.

2284. *Engineers' Data Sheets.* 44 pp. Illus. Specifications for Ambler roofing and siding.

Johns-Manville, Inc., 292 Madison Ave., New York.

3551. *Johns-Manville Products.* Catalog. 16 pp.

Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City N. J.

4121. *Shingles That Last.* Illus. Deals with metal and asbestos roofing.

4123. *Asbestos Roofing and Colored Asbestos Shingles.* Literature.

ASBESTOS ROOFING—See Roofing Materials

ASH DUMPS—See Dampers, etc.

ASH HOISTS—See Hoists

AXES—See Edge Tools

BAND SAWS—See Woodworking Machinery

BAR BENDERS AND CUTTERS

Koehring Co., 31st and Concordia Sts., Milwaukee, Wisc.

3711. *Koehring Bar Benders and Cutters.* Folder. 4 pp. Illus

3712. *Koehring Booklet.* Lists complete line of products.

BATCH BOXES—See Mortar Boxes

BATHROOM ACCESSORIES—See Bathroom Fixtures

BATHROOM FIXTURES

Crane Co., 836 S. Michigan Ave., Chicago.

2845. *Homes of Comfort.* 100 pp. Presents complete line.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.

3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.

Johnson Plumbing Supply Co., 3641-43 S. Halsted St., Chicago, Ill.

3571. *Johnson Catalog.* Illus. Covers entire line of plumbing and bathroom equipment, boilers, valves, and radiators.

Kenney-Cutting Prod. Corp., 507 5th Ave., New York.

3631. *Kenney Curtainless Shower.* Catalog A. Illus. Concerns several types of curtainless showers.

Wheeling Sanitary Mfg. Co., Wheeling, W. Va.

5041. *Descriptive Literature.* Treats of the combination bathtub.

BEDS, DOOR—See also Built-In Features

American Bed Co., 18th St. and Park Ave., St. Louis, Mo.

2071. *Out-O-Site.* 20 pp. Treating of portable, disappearing beds.

Concealed Bed Corp., 434 Garland Bldg., Chicago.

2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these concealed beds.

2772. *The Book of Beds.*

2773. *Rooms Without Walls.*

Murphy Door Bed Co., 22 W. Monroe St., Chicago.

4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments. Contains data on steel and wood cabinets, ironing boards, steel kitchens, etc.

BENCH GRINDERS—See Grinding Machinery

BITS—See Tools

BLACKBOARDS—See Slate

BLOCK MACHINERY—See Concrete Machinery

BLOWERS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.

2343. *Descriptive Literature on Blowers.* Illus.

BLOW TORCHES

Everhot Mfg. Co., Maywood, Ill.

3032. *Everhot Blow Torches.* Circular.

BLUE PRINT—See Drafting Material

New York Blue Print Paper Co., 102 Reade St., New York.

4161. *General Catalog.* Illus. Includes complete line of drafting materials, surveying instruments, rules, etc.

Peerless Blue Print Co., 341 5th Ave., New York.

4271. *Peerless Catalog.* Illus. Comprises descriptions of surveyors', builders', and draftmen's equipment.

BOILERS—See Heating Equipment

BOOKS—See also Plans

Audel & Co., Theo., 63 West 23rd St., New York.

2321. *Helping Hand Books for Mechanics, Engineers, Electricians and Builders.* 32 pp. Illus. Describes Audel Hand Books.

Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.

2711. *How to Read Blue Prints.* Booklet Illus. Includes plans.

2713. *Building Construction.* Booklet. Descriptive Literature.

Walker Co., Frank R., 536 Lake Shore Drive, Chicago.

4881. *How Practical Forms Increase Contractor's Profits.* Illus. Catalog. 64 pp. Describes all their books and forms.

BRACKETS—ROOFING, ETC.

Ajax Building Bracket Co., 1551 Rydal-Mount Rd., Cleveland Heights, O. (formerly Ajax Bracket & Outlet Co.).

2021. *Ajax Folding Metal Sheathing and Roofing Bracket.* Illus. Leaflet describing assembling steps and use.

[illegible] IPS cand, O.

[illegible] Catalog. Deals with application of prod- [illegible] of the [illegible]ices.

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.

3172. *Gabriel Folding Brackets.* Descriptive literature.

Richards-Wilcox Mfg. Co., Aurora, Ill.

4427. *Descriptive literature.* Includes prices.

Seaman Safety Bracket Corp., Rochester, N. Y.

4541. *Why Take Chances?* Illus. Catalog. 24 pp. Gives facts relating to *Seaman Safety Brackets.*

Steel Scaffolding Co., Evansville, Ind.

4651. *Catalog C.* Illus. 16 pp. Describes *Trouble-Saver Steel Scaffolding*, giving prices.

BRANDING IRON—See Marking Devices

BRICK

American Face Brick Assn., 130 N. Wells St., Chicago.

2111. *The Story of Brick.* 5 pp. Illus. History and requirements of building brick.

2112. *A Manual of Facebrick Construction.* 116 pp. Illus. Types of facebrick for chimneys, etc. Price, $1.00.

2113. *The Home of Beauty.* 72 pp. Illus. 50 prize designs for small brick houses. Price, 50 cents.

2114. *Architectural Details in Brick Work.* 3 series, totalling 124 prints of brick work details. Price, $1.50 per set.

2115. *English Precedent for Modern Brick Work.* 100 pp. Illus. Plates and drawings of Tudor and Gothic. Price, $2.00.

2117. *Bungalow and Small House Plans.* 4 booklets. 50 pp. Illus. Contains 98 reversible designs. (1) 3-4 rooms; (2) 5 rooms; (3) 6 rooms; (4) 7-8 rooms. 35 cents. $1.00 per set.

Common Brick Manufacturers' Assn., 2121 Guarantee Title Bldg., Cleveland, O.

2761. *The Home You Can Afford.* 64 pp. Illus. Contains 62 designs with floor plans of houses and bungalows. 10 cents.

2762. *Your Next Home.* 64 pp. Illus. Contains 60 designs with floor plans of brick houses and bungalows. Price, 10 cents.

2763. *Farm Homes of Brick.* 24 pp. Illus. Offers 10 selected designs with floor plans of farm houses. Price, 5 cents.

2764. *Brick—How to Build and Estimate.* 72 pp. Illus. Includes brick construction data and estimating tables. 25 cents.

2765. *Skintled Brickwork.* 15 pp. Illus. Shows 7 selected houses by Chicago architects. Price, 15 cents.

2766. *Brick Silos and How to Build Them.* 40 pp. Illus. Gives information concerning silo construction. 10 cents.

Hocking Valley Products Co., Logan, O.

3401. *Face Brick.* Descriptive literature.

BRIDGING—See also Metals and Metal Specialties

General Fireproofing Co., Youngstown, O.

32213. *GF Metal Building Specialties.* Folder, A. I. A. File No. 16E2. 20 pp. Illus. Includes information on bridging, etc.

BUILDING BLOCKS—See Concrete Blocks

BUILDING CONSTRUCTION

Crozier-Straub, Inc., 120 W. 42nd St., New York.

2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

General Fireproofing Co., Youngstown, O.

3221. *The Fireproofing Handbook.* 72 pp. Illus. Deals with use of fireproofing materials in building construction.

Milwaukee Corrugating Co., Milwaukee, Wis.

4001. *Metallic Construction for Modern Home.* 16 pp. Illus. Shows home interiors *with Milcor Stay Rib.*

Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.

4201. *Northwestern.* General Catalog. 16 pp. Illus. Covers complete line of Northwestern products, including Kno-Burn metal lath. *Longspan Plasta-Saver, Nemco* channels.

Smith Co., T. L., Milwaukee, Wisc.

4593. *Smith Excavator and Loader.* Bulletin No. 408. Illus. Deals with operation for building construction work.

Sykes Metal Lath Co., Niles, O.

4731. *Metal Lath for All Purposes.* Illus. Booklet. 20 pp. Contains information pertaining to types of their metal lath.

4732. *Catalog and Handbook.* Illus. 32 pp. Deals with metal lath and steel building specialties, with specifications and details.

Truscon Steel Co., Youngstown, O.

4791. *Truscon Floorstyle Construction.* Form D-352. 16 pp. Contains data and illustrations of these installations.

4792. *Truscon Standard Buildings.* Form D-398. 48 pp. Gives description and illustrations of these steel buildings.

4793. *Truscon Building Products.* Illus. Form D-376. 112 pp. Contains brief description of each of their products.

4794. *Modern School Construction.* Form D-395. 16 pp. Shows their products used in this type of construction.

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Thousands of Live Prospects

for

MASONRY CONTRACTORS

You May Have Them by Registering Now

If you are the kind of builder who likes to do good brick work—

And if you know (as thousands have proved) that a brick home costs only a few hundred dollars more than for less enduring construction—

If you say "that's me" to the foregoing, we can and will give you the names and addresses of people in your locality who are about to build.

Thousands of families about to build brick homes inquire each year of this association for the names and addresses of reliable masonry contractors.

We would like to build up a list of good masonry contractors who know that a brick home can be built for practically the same cost as any first class building.

You don't obligate yourself by registering with us to get these prospects. If you don't agree with our statements about the cost of brick homes, drop us a line and let us show you. You can convince yourself.

Register with the Coupon

Some information about you and the work you have done will enable us to create a favorable impression of you with the people who inquire.

For that reason we ask that you use the coupon to register. If you prefer to write a letter, please be sure to include the data outlined below.

Here is an opportunity that costs you nothing yet may be the source of some good, profitable business.

Register now, please—either at National Headquarters or at any of the district organizations listed below.

The Common Brick Manufacturers' Association of America

2133 Guarantee Title Building, Cleveland

The Common Brick Manufacturers'
Association of America,
2133 Guarantee Title Building,
Cleveland, Ohio.

Please put my name on your list of mason contractors so that you can refer to me when people ask you to name a good builder.

Name .....

Street Address .....

City .....State .....

Years in business.....

What per cent. of the homes you build are brick?.....

Are you familiar with the various Common Brick walls developed by this Association? .....

Would you like to have free folders describing these walls?.....

Chicago
Chamber of Commerce Bldg.

Detroit, Mich.
404 Penobscot Bldg.

Hartford, Conn.
225 Pearl Street

Los Angeles
342 Douglas Bldg.

Nashville, Tenn.
Harry Nichol Bldg.

New Orleans, La.
904 Carondelet Bldg.

New York City
1710 Grand Central Terminal Bldg.

Philadelphia
City Centre Bldg.

Portland, Ore.
310 Lewis Bldg.

San Francisco
811 Sharon Bldg.

Seattle, Wash.
524 Burke Bldg.

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Selected List of Manufacturers' Literature

(Continued from page 148)

BUILDING PAPER
Bird & Son, East Walpole, Mass.
2451. *Waterproof.* 6 pp. Illus. Describes *Neponset* building paper.
Brown Company, Portland, Me.
2531. *Bermico Sheathing Paper.* Folder. Illus. Contains samples of four different weights of Bermico. Includes name and location of local dealer.

BUILT-IN FEATURES
Alberene Stone Co., 153 W. 23d St., New York.
2031. *Illustrated literature* on soapstone laundry tubs.
Concealed Bed Corp., 434 Garland Bldg., Chicago.
2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these Concealed Beds.
2772. *The Book of Beds.*
2773. *Rooms Without Walls.*
Garden City Plating & Mfg. Co., 1430 So. Talman Ave., Chicago.
3192. *Clothes Closet Plans.* Folder. Discusses convenience and capacity of closets built with *Garey Garment Carriers.*
Herrick Refrigerator Co., Waterloo, La.
3371. *Refrigerators.* Catalog. 56 pp. Illus. Describes various types of refrigerators.
Hess Warming and Ventilating Co., 1207 So. Western Ave., Chicago.
3381. *Snow-White Steel Cabinets and Mirrors.* Booklet. 16 pp. Illus. Describes *Hess* steel medicine cabinet.
Kilmoth Products Corp., 50B Union Sq., New York.
3671. *No More Folding, Packing or Mussing.* Folder. Illus. Deals with use of built-in cedar closets.
3672. *Kilmoth.* Leaflet. 2 pp. Explains Kilmoth cedar lining.
Murphy Door Bed Co., 22 W. Monroe St., Chicago
4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments. Contains data on steel and wood cabinet ironing boards, steel kitchens, etc.
Ohio State Stove & Mfg. Co., 666 Lake Shore Drive, Chicago.
4231. *The Kab-Range.* Catalog BA-3. Illus. Describes a combination of the *Packer All-Steel Kitchen Cabinet* and *Ranges.*
Wasmuth-Endicott Co., Snowden St., Andrews, Ind.
4941. *12 page Folder.* Features *"Kitchen Maid"* unit systems. Also another mailing piece, showing built-in kitchen apparatus.
White Steel Sanitary Furniture Co., Grand Rapids, Mich.
5341. *Literature.* Describes their "White-Steel" Medicine Cabinets and other "White-Steel" products.

CABINETS—See Built-In Features
CALCIUM CHLORIDE—See Concrete Process
CANVASS—See Roofing Materials
CARBURETORS—See Trucks, Motor Supplies
CARPENTERS' TOOLS—See Tools, Edge, also Tools
CASEMENTS—See Windows, also Windows, Metal
CASEMENT HARDWARE—See Hardware

CASTINGS, Iron, and Cast Products
Forest City Foundry & Mfg. Co., Cleveland, O.
3142. *Light Grey Iron Castings* and *Cast Mail Boxes.* Descriptive.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus. Covers entire line of products manufactured in the company's plants.

CAULKING AND GLAZING COMPOUNDS
Bird & Son, East Walpole, Mass.
2452. *The Handy Man's Helper.* 6 pp. Illus. Presents various uses for *Bird's* plastic cement.
Weatherproof Caulking Co., 756 Washington Av., No., Minneapolis, Minn.
4971. *Literature.* Gives information and prices.

CEILINGS, METAL—See Metals, etc.
CELLAR DRAINS—See Plumbing Equipment
CEMENT—Portland
Alpha Portland Cement Co., Easton, Pa., and Chicago.
2061. *Alpha Cement—How to Use It.* New edition of handbook. 114 pp. Illus. Deals with forms of construction.
2062. *Alpha Aids.* Illus. Periodical dealing with various phases of the industry.
2063. *Alpha Service Sheets.* Instructions on concrete construction.
Kosmos Portland Cement Co., Louisville, Ky.
3741. *For Enduring Masonry.* Folder. 8 pp. Illus. Discusses use of *Kosmortar,* a building mortar.
Lehigh Portland Cement Co., 30 E. 42nd St., New York.
3771. *Build the Castle of Your Dreams.* 32 pp. Deals with concrete home construction.
3772. *Permanent Satisfaction in Your Building.* Illus. Book. 48 pp. Treats of fire-safe farm construction.
3773. *The Lehigh Magazine.* New House monthly.
Louisville Cement Co., Louisville, Ky.
3821. *Brixment for Perfect Mortar.* Handbook. Contains data.
Pennsylvania Cement Co., 131 E. 46th St., New York.
4291. *Pennsylvania Concrete Manual.* Handbook. 48 pp. Illus. Discusses clay, reinforcing, setting time, slump test, etc.
4292. *Three Booklets.* Deal with phases of Concrete work. By Frank W. Skinner, C.E.
Portland Cement Assn., 111 W. Washington St., Chicago.
4351. *Concrete Masonry Construction.* Catalog. 32 pp. Illus. Contains consideration of approved practices.
4352. *Concrete Floors.* Bookle., 16 pp. Illus. Gives data.
Sandusky Cement Co., Cleveland, O.
5182. *Concrete Work Made Easy.* Booklet. Deals with the solution to water-proofing problems in concrete construction.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4811. *Ivory Keene's Cement.* Bulletin KC1. Gives data.

CEMENT—High Temperature
Johns-Manville, Inc., 292 Madison Ave., New York.
3552. *Refractory Cements.* 16 pp. Illus. Presents facts and data.
3553. *Acrite Boiler Wall Coating.* Illus. Discusses fuel saving.
CEMENT—Magnesite
CEMENT PAINT—See Paint, Cement
CEMENT TOOLS
Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.
2011. *Abram Double Action Long-Handled Cement Finishing Tools.* 12 pp. Illus. Shows entire line.
2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.
CHIMNEY CAPS—See Ventilators, also Metals, etc.
CINDER BLOCKS—See Building Blocks
CHISELS—See Tools, Edge
CIRCULAR SAWS—See Saws
CLAMPS
Black Bros. Co., Inc., Mendota, Ill.
2472. *Black Veneer and Glue Room Equipment.* Catalog No. 11. 16 pp. Illus. Covers the line of clamps, presses.
2473. *Gluing Clamps.* 24 pp. Illus. Gives additional information on veneer and glue room equipment.
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
29511. *Brick Clamps.* Leaflet. Illus.
Taylor, James L., Mfg. Co., Poughkeepsie, N. Y.
4751. *Catalog.* Illus. 32 pp. Lists and describes their lines of clamps; with prices.
4752. *Clamp Questions.* Illus. Pamphlet. Deals with several types of clamps and gives information as to use.
4753. *They Know.* Folder. Gives illustrations of two clamps.
CLOTH WALL COVERING—See Wall Covering
CLOTHES CLOSET FIXTURE
Garden City Plating & Mfg. Co., 1430 So. Talman Ave., Chicago.
3192. *Clothes Closet Plans.* Folder. Discusses convenience and capacity of closets built with *Garey Garment Carriers.*
Knape & Vogt Mfg. Co., Grand Rapids, Mich.
3691. *Beautiful Clothes Closets.* Booklet. Illus.
3692. *Plans for Modern Clothes Closets.* Folder. Blue prints.
CLOTHES DRYERS
Chicago Dryer Co., 2206 N. Crawford Ave., Chicago.
5511. *Laundry Equipment.* Catalog. 48 pp., illustrated. Gives description of dryers, electric washing machines, and ironing machines for homes, apartment buildings and small institutions.
Victor Dryer Co., 1 Shirley St., Worcester, Mass.
5461. *Catalog.* Illus. Includes price list of dryers, brackets, etc.
CLUTCHES—See Hoists
COAL CHUTES
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2052. *Descriptive literature.* Illus.
Gabriel Steel Co., Bellevue Ave., Detroit, Mich.
3171. *Gabriel Chutes.* Descriptive literature.
Sykes Metal Lath Co., Niles, O.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.
COLLEGES AND SCHOOLS—See Schools
COLORS, CEMENT, MORTAR, STUCCO—See Mortor Colors
COLUMN BASES
Cheney & Son, S., Manlius, N. Y.
2761. *Price List.* General catalog. 46 pp. Illus. Covers complete line of Cheney products.
COLUMN AND BEAM COVERING
United States Gypsum Co., 205 W. Monroe St., Chicago.
4812. *Bulletin PT4.* Gives relevant data.
COLUMNS, IRON AND STEEL
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2058. *Stanchions for Basement.* Leaflet. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp.
COLUMNS, WOOD
Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24. pp.
Pacific Lumber Co. of Illinois, 2060 McCormick Bldg., Chicago.
4241. *Construction Digest.* Illus. Contains data and description.
COMBINATION DOOR—See Doors
COMBINATION WOODWORKERS—See Woodworking Machinery
COMPARTMENTS
Weis, Henry, Mfg. Co., Atchison, Kan.
4981. *Weisteel Compartments.* Catalog 11. Illus. Plans, specifications and details of metal partitions and doors for toilet rooms, shower and dressing rooms, hospital articles, etc.
CONCRETE ACCESSORIES
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2057. *Concrete Inserts.* Descriptive literature. Illus.
Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4201. *Northwestern.* General catalog. 16 pp. Northwestern products, including *Kno-Burn* metal lath, *Longspan Flasta-Saver, Nemco* channels, corner bead and metal waste baskets.
4205. *Designing Data.* Catalog. 94 pp. Covers complete line of *Econo* expanded metal for reinforced concrete.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletin FT3.* Deals with *Floor Voids* for use in concrete.
Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder System.* Catalog. Illus. Takes method of building double monolithic concrete walls without forms.
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section dealing with their electrically welded wire fabric for concrete reinforcement.
CONCRETE BLOCKS
Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.
CONCRETE BLOCK MACHINE—See Concrete Machinery
CONCRETE MACHINERY
Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2051. *Why Stay a Little Fellow?* Folder. 4 pp. Illus. Describes the *Magic Concrete Mixer.*
2052. *The Concrete Road to Success.* 22 pp. Illus. *Manic Mixer.*
Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.
2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.
American Cement Machine Co., Keokuk, Iowa.
2101. *Boss Hoists.* Bulletin No. 117. 6 pp. Illus.
2102. *Boss Tilter Mixer.* 12 pp. Illus. Specifications.
2103. *Boss Big One Bagger.* Bulletin No. 5. Illus.
2104. *Boss Heavy Duty Type Mixer.* No. B24. 30 pp. Illus.
2105. *Boss Combination Paving and Building Mixer.* No. P9.
Anchor Concrete Mchy. Co., Adrian, Mich.
2231. *Anchor Line of Concrete Machinery.* 36 pp. Illus.
2232. *Hobbs Concrete Block Machine.* 16 pp. Illus.
2233. *Handbook* on concrete products machinery. 66 pp. Illus.
C. H. & E. Mfg. Co., Clinton & Mineral Sts., Milwaukee, Wis.
2584. *Mortar Mixers.* Bulletin. Illus.
Chain Belt Co., Milwaukee, Wis.
2681. *Rex Mixers.* Catalog No. 117. 26 pp. Illus. Deals with mixers and mixer equipment.
2682. *Rex Powers.* Catalog No. 118. 42 pp. Illus. Contains descriptions, details, and specifications of various types.

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Selected List of Manufacturers' Literature

(Continued from page 150)

Concrete Equipment Co., Holland, Mich.
2781. *Utility Concrete Equipment.* Catalog. 28 pp. Illus. Shows various types and size of *Utility* concrete block machines.
2782. *Utility High Speed Ramming Machine.* 6 pp. Illus. Presents details of block machine.

Construction Machinery Co., Waterloo, Iowa.
2801. *The Wonder Catalog.* Covers line of *Wonder* Equipment.

Cropp Co., B. M., 2334 W. Kinzie St., Chicago.
2881. *Cropp Mixers.* Catalog. Illus. Presents complete line.

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery in block and tile manufacture.

Foote Foundry Co., J. B., Frederickstown, O.
3111. *Panama Line.* Catalog. 40 pp. Illus. Covers complete line of *Panama* concrete block machinery. Includes specifications.

Ideal Concrete Machinery Co., 5000 Spring Grove Ave., Cincinnati, O.
3471. *Ideal Concrete Machinery.* Catalog No. 35. 80 pp. Illus. Describes complete line of concrete block, and brick making machines, mixers, hollow tile machines and ornamental molds.
3472. *Ideal Cincinnatus Batch Mixers.* Booklet. 26 pp. Illus.

Helm Brick Machine Co., 189 Mitchell St., Cadillac, Mich.
3351. *Helm Catalog.* Deals with *Helm* brick and block machines. Includes description of *Helm* mixers.

Jaeger Machine Co., Columbus, O.
3531. *Jaeger Mixers.* Catalog. 36 pp. Illus. Covers complete line of concrete, plaster, and mortar mixers.

Koehring Co., 31st & Concordia Sts., Milwaukee, Wisc.
3713. *Dandie Mixer.* Circular. Discusses *Dandie* light mixers.
3714. *Concrete—Its Manufacture and Use.* Book. 208 pp. Treats generally on the subject of concrete.

Kwik-Mix Concrete Mixer Co., Port Washington, Wis.
3751. *Kwik-Mix Concrete Mixers.* Series of bulletins. Illus. Describes types No. 3, 3½, 4-L, 7-L.

Little Whirlwind Mixer Co., 438 Gould St., La Crosse, Wis.
3801. *Master Mixer.* Circular. Illus. Deals with construction and operation. Includes prices.

Miles Mfg. Co., Jackson, Mich.
3991. *General Catalog.* Illus. Presents complete *Miles* line of block and brick machines, power lampers, mixers and moulds.

Ransome Concrete Machinery Co., Dunellen, N. J.
4381. *7-S Building Mixer.* Bulletin 110A. Illus.
4382. *Standard Building Mixers.* Bulletin 112. Illus. Describes trucks, main frames, and other parts, and standard mixers.
4383. *4-S and 7-S Bantam Mixers.* Bulletin 114. Illus.
4384. *3½-S Tilting Mixer.* Bulletin 116.
4385. *21-E Paving Mixer.* Bulletin 113. Illus.
4386. *Chuting Equipment.* Bulletin 202. Illus. Gives details of construction, drawings, tables, etc.
4387. *Monkey-on-a-Stick.* Bulletin 115. Illus.

Remmel Mfg. Co., Dept. H., Kewaskum, Wis.
4391. *Remmel Catalog,* 1925. Illus. Takes up complete line *Remmel Tilting Type* mixers.
4392. *Remmel Mixers.* 2 Folders. Contains description and data.

Sheldon Mfg. Co., Inc., Box 25, Neahawa, Neb.
4561. *The "Know How" of Concreting.* Illus. Booklet. 127 pp. Contains information on various phases of concrete work.
4562. *A Series of Leaflets,* folders etc. Illus. Presents their mixers and explains their use.

Smith Co., T. L., Milwaukee, Wisc.
4591. *Smith Simplex Mixer.* Bulletin No. 409-A. 20 pp. Illus. Describes construction of Smith mixers.
4592. *Smith Non-Tilting Mixer.* Bulletin No. 405-A. 48 pp. Illus. Describes operation with details of construction.
4594. *Smith Concrete Mixers and Pavers.* Catalog. Illus. 64 pp. Gives typical operation installations, details.

Stewart Mfg. Co., 124 Rath St., Waterloo, Ia.
4681. *Catalog* 25. Illus. Contains full description of their mixers.

Universal Cement Mold Co., No. Milwaukee, Wis.
5471. *Build the Hollow Wall Way.* Literature.

Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder Machines.* Booklet. Illus. Takes up method of building double monolithic concrete wall without forms.

CONCRETE PROCESSES

General Fireproofing Co., Youngstown, O.
3224. *Crystalrox.* Folder. 4 pp. Illus. Pertains to hardening and dust-proofing of cement floors.
3225. *Metallic Floor Hardener.* Folder. GF. 140. 4 pp. Illus. Relating to construction treatment for cement floor hardening.

Morene Products Co., Inc., 241 W. 28th St., New York.
5371. *Morene, the Wall Finish Distinctive; a Portland Cement Product—Atlas White.* Brochure. Illustrated. Shows examples of *Morene* used for ceiling, wall and mural decorations.
5372. *Folder.* Describes *Morene* and its use as decorative medium.

Solvay Process Co., 40 Rector St., New York.
4601. *For Concrete Summer and Winter.* Illus. Catalog. 16 pp. Describes uses of their calcium chloride for concrete.
4602. *Solvay Calcium Chloride for Concrete Construction.* Illus.

Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder System.* Catalog. Illus. Describes building double monolithic concrete walls using Van Guilder machines in place of forms.

CONCRETE REINFORCING—See Concrete Accessories

CONCRETE SURFACER

Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.
2791. *Berg Surfacer and Finisher.* 8 pp. Illus. Deals with concrete surfacing apparatus.

CONDUCTOR PIPE—See Pipe, Conductor
CONSTRUCTION, FIREPROOF—See Building Construction
COPPER—See Leaders, Flashings and Gutters
CORNER BEAD—See Metals, also Building Construction
CORRESPONDENCE COURSES—See Schools
CORRUGATED ASBESTOS—See Asbestos Products

CRANES

Koehring Co., 31st & Concordia Sts., Milwaukee, Wisc.
3712. *Koehring Booklet.* Lists complete line of products.

CRAYONS, LUMBER

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line of Aloe levels, transits, and drafting material.

DADO HEADS—See Woodworking Machinery

DAMPERS AND ASH DUMPS (FIREPLACE)

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.
3175. *Dome Dampers and Ash Dumps.* Descriptive literature.

Hornet Mantel Co., 1147-A Market St., St. Louis, Mo.
3442. *Homet Dampers.* Descriptive literature. Illus.

Sykes Metal Lath Co., Niles, O.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.

DAMPPROOFING—See Waterproofing, also Stucco, etc.

DECK CLOTH—See Roofing Materials

DERRICKS

Sasgen Derrick Co., 3010 W. Grand Ave., Chicago, Ill.
4531. *Circular No.* 2. Illus. Comprises descriptions of complete line of Sasgen derricks. Includes prices.

DIFFUSING GLASS—See Glass, Ornamental

DIRECT MAIL ADVERTISING—See Mailing Lists

DOOR CHECKS—See Hardware, Window and Door

DOORS, METAL

Bayley Co., Wm., Springfield, O.
2381. *Bayley-Springfield Steel Doors.* Bulletin D21. 4 pp. Illus. Reproductions and details.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4424. *Monarch Mill-Type Doors.* Illus. Catalog. 8 pp. Contains descriptions and blueprints of this mill-type door.

Truscon Steel Co., Youngstown, O.
4795. *Truscon Steel Sash.* Illus. 80 pp. Handbook.
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog. Contains designing data, tables and views of stock sash installations.

DOORS—Wood

Chicago & Riverdale Lumber Co., Riverdale, Chicago.
5421. *Catalogs.* Illustrated. Cover entire line of doors, sash, etc.

Combination Door Co., Fond-du-lac., Wisc.
2751. *Easy-Change Combination Doors.* Catalog H. Illus. Deals with description of combination storm and screen door.

Long-Bell Lumber Co., R. A. Long Bldg., Kansas City, Mo.
3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.

Morgan Sash & Door Co., Chicago, Ill.
4041. *Building with Assurance.* Catalog. 440 pp. Illus. Shows bungalows and houses (in color) with floor plans. Includes information on interior decorating, etc. Price $2.50, refunded under special conditions.

Paine Lumber Co., Ltd., Oshkosh, Wisc.
4251. *Miracle Doors. Booklet.* 16 pp. Illus. Presents details concerning *Paine* doors in paint and natural finish.
4252. *Paine Miracle Doors.* Catalog. 56 pp. Illus. In color Treats on *Miracle* doors from an interior decorative angle

Stearns, A. T., Lumber Co., 87 Taylor St., Neponset, Boston, Mass.
4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawings of mantels, columns, doors, sash, windows, blinds.

Wheeler, Osgood Co., Tacoma, Wash.
5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of these doors.
5022. *Laminex Doors.* Catalog 31. Includes 20 designs in vertical and flat grain veneers. Size and details.
5024. *Laminex* Book. For architects and the building trade.

DOORS, SIDEWALK—See also Vault Lights

American 3-Way-Luxfer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2206. 3 *Way-Luxfer Sidewalk Doors.* Bulletin D23. 4 pp. Illus. Describes 5 types, also includes 3-*Way* Automatic door guard.

DOOR FRAMES—See Frames, Door and Window

DOOR AND WINDOW TRIM

Milwaukee Corrugating Co., Milwaukee, Wisc.
4003. *Milcor* Expansion Door and Window *Trim.* 8 pp. Illus.

DOOR BEDS—See Built-In Features

DRAFTING AND SURVEYING MATERIALS

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line of Aloe levels, transits and drafting material.

Bauer Supply Co., 2709 W. 22nd St., St. Louis, Mo.
5441. *Ruling Pens.* Circulars. Cover line of Bauer supplies.

Beckman Co., L., 1002 Jackson Ave., Toledo, O.
2421. *Survey Instruments.* Catalog No. 8. 82 pp. Illus. Covers complete line of *Beckman* levels and transits. With prices.

Geler & Bluhm, Inc., Troy, N. Y.
3201. *Standard Precision Convertible Level.* Circular C. 6 pp. Illus. Deals with level-and-transit and leveling rod.
3202. *Junior Convertible Level.* Circular E. 6 pp. Illus. Contains information regarding *Junior* level-and-transit.

Kolesch & Co., 138 Fulton St., New York.
3721. *Catalogue of Kolesch.* Book. 336 pp. Illus. Shows complete line of surveying and drafting instruments

Makepeace, Inc., B. L., 387 Washington St., Boston, Mass.
3921. *Loxo Compound Level.* Booklet. 16 pp. Illus. Presents details on compound level and transit. Includes price.

Master Rule Mfg. Co., Inc., 815 E. 136th St., New York.
3951. *Interlox Master Slide Rule.* Folder. 4 pp. Illus. Explains use of *Interlox* rule.

New York Blue Print Paper Co., 102 Reade St., New York.
4161. *General Catalog.* Illus. Includes complete line.

Peerless Blue Print Co., 341 5th Ave., New York.
4271. *Peerless Catalog.* Illus. Comprises descriptions of surveyors', builders' and draftmen's equipment.

Stevens, E. A., Newton Falls, O.
4661. *Circular.* Describes line, and line and surface levels prices.

Warren-Knight Co., 136 N. 12th St., Philadelphia, Pa.
4921. *Sterling Tracing & Detail Papers.* Samples.
4922. *Sterling Levels and Transits.* Catalog. 32 pp. Illus. Contains specifications and structural details of instruments.
4923. *Pocket Note Book.* Illus. Gives instructions for use.

White Co., David, 907 Chestnut St., Milwaukee, Wisc.
5051. Catalog A. *White's Improved Instruments.* Illus. 36 pp.

DRAWING MATERIALS—See Drafting Materials

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Beautiful and Durable

Cabinet is fitted with heavy glass knob and enameled non-sag hinges. Fixture cannot come apart or sag, will last a lifetime. Every cabinet is **guaranteed** to be entirely satisfactory and is carefully crated so that we guarantee it will reach you in first-class condition. Dimensions: Height, 21 inches; width, 16 inches; depth 5 inches. Cabinet complete as shown and described. Shipping weight 35 pounds.

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$98.50



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System consists of pump with automatic air valve, oversize 1/6 Horse Power repulsion induction motor, automatic switch set at 40 pounds, relief valve, shut-off valves, necessary pipe and fittings, as shown; 1 galvanized heavy pneumatic tank with pressure gauge; 1 ¾-inch galvanized foot valve and strainer. Pump has ¾-inch suction and discharge. Outfit equipped with 60 cycle, 110-220 volt, single-phase alternating current motor. If you have other current, state voltage, phase, etc.

No. A-300 Water Supply System with 42 Gallon Tank, shipping weight 300 pounds, price complete..... **Special to Builders $98.50**

No. A-301 Water Supply System with 80 Gallon Tank shipping weight 340 pounds, price complete **Special to Builders $110.50**

No. A-302 Water Supply System with 100 Gallon Tank, shipping weight 380 pounds, price complete.. **Special to Builders..$122.50**

Systems shipped out of our Chicago Plant same day order is received. **Order TODAY and SAVE**

Chicago Highest Grade Bathroom Outfit Complete $59.95



Fixtures furnished with our "Chicago" bathroom outfit are built along practical and attractive lines, are perfect and of the highest-grade that it is possible to MAKE. Shows that FIRST quality Hardin-Lavin products can be had at low cost.

Deep Apron Lavatory

Late design, white porcelain enameled, cast-iron drop apron lavatory, supported on concealed wall hangers; new low design, china indexed compression faucets, heavy brass, nickel-plated adjustable supply pipes and trap to floor or wall, size 17x19½ inches, weight 120 pounds.

Chicago A-31—Lavatory, complete as shown with Iron Pipe connections. **Special to Builders.....$11.75**

White Enameled Bathtub—Tub is cast iron, heavy white porcelain, enameled inside and over the 3¼ inch turned-over rolled rim; outside of tub is painted. This is our newest design, having a pleasing appearance and the highest grade leg tub manufactured. Fitted complete with heavy brass, nickel-plated compression bath faucet, with china indexed handles, nickel-plated heavy brass adjustable waste and overflow and supply pipes to floor; width 20¼ inches, length 4½ or 5 feet, weight 300 pounds.

Chicago A-30—Bathtub complete as shown with iron pipe connections. **Special to Builders.....$31.10**

White Closet Outfit—Improved, snow-white composition china closet tank (beautiful and indestructible); fitted with solid brass elevated noiseless valves and improved china flushing handle. Highest-grade white vitreous china syphon washdown bowl. Highly polished reinforced birch mahogany seat, with heavy brass, nickel-plated bar hinges, flushing ell, supply pipe, closet bolts, etc., weight 125 pounds.

Chicago A-32—White Closet Outfit, complete as shown with iron pipe connections. **Special to Builders $19.95**

Chicago A-33—Bathroom Outfit, complete as shown and described. **Special to Builders.....$59.95**

All shipped out of our Chicago plant same day order is received. Order today and save. You cannot lose.



Pipeless Furnace

CUT-TO-FIT Heating Plants

Steam—Hot Air—Pipeless—Hot Water

Hardin-Lavin Cut-to-Fit Hot Water Heating Plants give highest heat efficiency at lowest cost. Boiler is built according to best engineering practice. Has scientifically designed, easy dumping grates, and long, indirect fire travel that insures complete combustion and maximum heat. Our modern equipment and 50 years of practical experience has qualified us to produce a boiler that will burn any kind of coal, hard or soft, cleanly, completely and economically.



Hot Water Boiler

We Help You Plan and Install

Every Hardin-Lavin Heating System is figured to eliminate long runs of piping, to save valuable time, unnecessary materials, and expensive labor. You can do the installing yourself with our complete directions and simple installing features. We loan tools if necessary. Write today for low wholesale prices.

Free Estimate—No Obligation

Send us a rough sketch or blue print and we will figure the wholesale cost of heating plant or plumbing system at savings that will surprise you. You save waste, unnecessary material and expensive labor with our new method and free, easy, installing plans. Our Bonded Guaranty covers every purchase. Behind our Guaranty stands our **million dollar plants** and our record of 50 years' service to economy buyers.

Read Our Guaranty

Then write this magazine, Dun's or Bradstreet or your bank about our 50 years' record of square dealing in the same business. **Order today and save. You cannot lose.**

MAIL THE COUPON TODAY!

OUR BONDED GUARANTY and LABEL PROTECTS YOU

We guarantee that every water supply system, plumbing outfit, heating plant or any article that you buy from us, from the smallest fitting to a complete installation, is perfect and exactly as shown and of the HIGHEST GRADE that is possible to manufacture.

HARDIN-LAVIN GUARANTEED HIGHEST GRADE FIRST QUALITY

We further guarantee that if for any reason you are dissatisfied you can return any goods bought from us and we will immediately refund your money plus freight charges you have paid. **Could Anything Be Fairer!**

(Signed) HARDIN-LAVIN CO.

Hardin-Lavin Co., 105-115 W. Pershing Road, Chicago, Ill.

Gentlemen: Enclosed please find 25c (one-half regular price) for which send me your Big Complete "Handy Man" Book-Catalog with special **wholesale** discount sheets and Free Bulletin Service. I am interested in:

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HARDIN-LAVIN CO.

Established 1876

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105-115 West Pershing Rd., CHICAGO

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Selected List of Manufacturers' Literature

(*Continued from page 152*)

DRAW PULLS—See Hardware

DUMBWAITERS—(See also Elevators)

Sedgwick Machine Works, 150 West 15th St., New York.

4551. *Catalog O.* Illustrated. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.

4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiters, brass tube dumb waiters, etc.

ELECTRICAL EQUIPMENT

Chicago Dryer Co., 2206 N. Crawford Ave., Chicago.

5511. *Laundry Equipment.* Catalog, 48 pp., illustrated. Gives description of dryers, electric washing machines, and ironing machines for homes, apartment buildings and small institutions.

Erie Fixture Supply Co., Erie, Pa.

5351. *Catalog No. 26.* Describes their line of completely wired lighting fixtures.

General Electric Co., Bridgeport, Conn.

3211. *Electrical Contractors' Catalog.* Illus. Takes up complete line of products for the wiring contractor.

3212. *Wires and Cables.* Catalog. 85 pp. Illus. 4 bulletins.

3213. *Electric Fans.* Folder. 6 pp. Illus. Gives details.

3214. *Reliable Wiring Devices.* Pocket Catalog. 206 pp. Illus. Gives prices and data for switches, rosettes, etc.

Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn.

3311. *H & H Line of Electrical Wiring Devices.* Catalog R. 152 pp. Illus. Presents line of *H & H* wiring equipment.

3312. *Architect's Handbook.* 18 pp. Illus. Contains specifications of *H & H* equipped buildings.

3313. *Tumbler Switch.* Folder. 4 pp. Illus. Describes action of H & H type tumbler switch.

Ilg Electric Ventilating Co., 2850 N. Crawford Ave., Chicago.

5521. *Ventilating Through the Kitchen.* Leaflet. Contains data on use and installation of electric exhaust fans for small homes.

Johns-Manville, Inc., 292 Madison Ave., New York.

3555. *Friction Tapes & Rubber Splicing Compounds.* Folder. 4 pp.

3556. *Fibre Conduits.* Booklet. 12 pp. Illus.

3557. *Electrobestos.* Booklet. 16 pp. Illus.

Western Electric Co., New York.

5001. *Inter-Phones Systems.* Descriptive literature.

5002. *Western Electric Lighting Manual.* Gives data and specifications.

ELEVATORS

American Saw Mill Machinery Co., 61 Main St., Hackettstown, N. J.

2172. *General Catalog. No. 22.* Contains description of hoists and general line of woodworking machinery.

International Steel & Iron Co., Evansville, Ind.

3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Kimball Bros. Co., Council Bluffs, Ia.

3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.

Otis Elevator Co., 11th Ave. and 26th St., New York.

5451. *Catalogs.* Illustrated. Concerns passenger and freight elevators.

Sedgewick Machine Works, 150 West 15th St., New York.

4551 *Catalog O.* Illus. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.

4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiter, brass tube dumb waiters, etc.

ELEVATOR DOOR EQUIPMENT

McCabe Hanger Mfg. Co., 425-27 W. 25th St., New York.

3851. *Elevator Door Hangers.* Booklet 23-B. 8 pp. Illus. Shows details of *McCabe* elevator door hangers.

Richards-Wilcox Mfg. Co., Aurora, Ill.

4423. *Ideal Elevator Door Equipment and Checking Devices.* Illus. Catalog, A-21. Lists, with prices, elevator door hangers, closers, latches, etc., for various types of doors.

ENGINES

Hercules Corporation, Evansville, Ind.

3361. *Hercules Engines.* Bulletin No. 18. 24 pp. Illus. Presents complete line of Hercules engines. Contains specifications.

FIBRE BOARD LUMBER—See Wallboard

FIREPLACE FURNISHINGS

Brecher Co., 445 W. Jefferson St., Louisville, Ky.

5241. *Brecher Mantels.* Descriptive literature.

Cheney & Son, S., Manlius, N. Y.

2701. *Price List.* General Catalog. 46 pp. Illus. Covers complete line of *Cheney* products.

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.

2951. *Book of Fireplace.* 24 pp. Illus.

Hornet Mantle Co., 1147-A Market St., St. Louis, Mo.

3443. *Hornet Fireplace Furnishings.* Literature. Illus.

3444. *Hornet Wood and Tile Mantels.* Literature. Illus.

Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.

4171. *General Catalog.* No. 10. Illus. Presents complete line of hardware specialties and carpenters' tools.

FIREPROOF CONSTRUCTION—See Building Construction

FLAG POLES

International Steel & Iron Co., Evansville, Ind.

3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Pole & Tube Works, Inc., Newark, N. J.

4331. *Flag Poles and Radio Masts.* Provide designs for contemplated installations.

FLOOR HARDENERS—See Concrete Processes

FLOOR MAINTENANCE

General Fireproofing Co., Youngstown, O.

3226. *Wood Floor Preservative.* Folder GF160. 12 pp. Illus.

Johnson & Son, S. C., Dept. BA4, Racine, Wisc.

3561. *Proper Treatment for Floors, Woodwork, and Furniture.* 32 pp. Illus. Treats on hard and soft wood finish.

3562. *Portfolio of Wood Panels.* 14 pp. Illus. Contains actual panels of finished woods. Includes finishing data.

FLOORING

Armstrong Cork Co., Linoleum Division, Lancaster, Pa.

2271. *Business Floors.* 48 pp. Illus. Data and directions on laying in public and semi-public buildings.

2272. *Armstrong's Linoleum Floors.* Handbook. Illus. Contains general information, tables and details on linoleum laying.

California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.

2611. *Lumber Data Filing Folder.* Together with a series of "Information Sheets" on California White Pine.

2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.

Certain-teed Products Corp., 100 E. 42nd St., New York.

2671. *Linoleum, Floortex, Roll Goods and Rugs.* Descriptive literature, samples and prices.

Long-Bell Lumber Co., R. A. Long Bldg., Kansas City.

3811. *The Perfect Floor.* 16 pp. Illus. Discusses methods of laying, finishing and caring for oak flooring.

Norton Co., Worcester, Mass.

4211. *Norton Floors.* Booklet. 24 pp. Describes the several types of *Alundum* floors with reference to their applications.

4212. *Norton Floors.* Monthly House Organ. 4 pp. Illus.

4213. *Alundum Safety Tile.* Booklet. 38 pp

Oak Flooring Bureau, 1014 Ashland Block, Chicago.

5161. *The Story of Oak Floors.* 24 pp. Illus. Discusses oak for floors and different types of product.

5162. *How and Where to use Oak Floors.* 16 pp. Illus. Gives details and specifications.

5163. *For School Buildings.* Folder. 6 pp. Illus. Discusses this phase of floors.

5164. *For Beauty, Economy and Durability.* Folder. 6 pp. Illus.

Pacific Lumber Co. of Illinois, 2060 McCormick Bldg., Chicago.

4241. *Construction Digest.* Illus. Contains data and description.

Ritter Lumber Co., W. M., Columbus, O.

4451. *Ritter Oak Flooring.* Illus. Catalog. 36 pp. Describes different kinds of oak flooring.

Wood-Mosaic Co., Inc., New Albany, Ind.

5121. *Wood-Mosaic Flooring.* Catalog of wood-carpet, strips, parquetry, tongue and groove flooring in natural wood colors.

5122. *Wood-Mosaic Floors.* Catalog. Illus. 32 pp.

Wright Rubber Products Co., Racine, Wisc.

5142. *Folder.* Illustrates their rubber tile. Shows installations.

FLOORING, COMPOSITION

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.

2464. *Bishopric Composition Flooring.* Description.

Everlasbestos Flooring Co., Rochester, N. Y.

3041. *The Modern Floor.* Booklet. 16 pp. Illus.

Muller, Franklyn, R., Inc., Waukegan, Ill.

4051. *Asbestone Fireproof Flooring.* 16 pp. Illus. Shows details

4052. *Instruction for preparing and laying Asbestone.* 8 pp. Illus.

Ritestone Prod. Corp., Westchester Ave., Bronx River, New York.

4441. *Ritestone Composition Flooring.* Folder. 6 pp.

Rocbond Co., Van Wert, O.

4463. *Rocbond Flooring.* Illus. Booklet. Describes properties and application for public buildings, stores, houses, etc.

United States Gypsum Co., 205 W. Monroe St., Chicago.

4813. *Bulletins FT 3, SP2.*

FLOORING—Industrial

Johns-Manville, Inc., 292 Madison Ave., New York.

3558. *Flooring That's Made to Fit.* Booklet. 16 pp. Illus.

FLOOR SANDERS—See Floor Surfacing Machinery

FLOOR SURFACING MACHINERY

American Floor Surfacing Machine Co., So. St. Claire St., Toledo, O.

2121. *American Universal.* Booklet. 8 pp. Illus. Describes American Universal Floor Surfacers.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.

2341. *Electric Portable Sander.* Bulletin BE. Illus.

Campbell Machine Co., Inc., 39 Hayward, Wollaston, Mass.

2621. *Catalog.* Illus. 16 pp. Discusses different uses of floor surfacing machine.

Chappell & Co., Waywell, 137 No. Jackson St., Waukegan, Ill.

2691. *Little-Automatic Electric Surfacing Machine.* Folder. 4 pp. Ballbearing Electric Floor Surfacing Machine.

Electric Rotary Machine Co., 3825 W. Lake St., Chicago.

3001. *The Electric Rotary Machine.* Catalog. 28 pp. Illus. Covers entire line of floor surfacing, refinishing machinery.

Fox Supply Co., Brooklyn, Wisc.

3161. *Fox Floor Scraper No. 1.* Leaflet. Illus. Includes price.

Lincoln-Schlueter Machinery Co., 225 W. Illinois St., Chicago.

3791. *Improved Schlueter Non-Lever Floor Surfacer.* Leaflet. 2 pp. Illus. Describes electric floor surfacer.

3792. *Illustrated Letter.* 4 pp. Presents description and data.

3793. *The Marvel.* Folder. 2 pp. Illus. Describes two disc type.

3794. *3 Men and a Lincoln.* Folder. 4 pp. Illus.

Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.

3962. *Master Floor Sander.* Descriptive literature.

National Sanding Machine Co., 543-45 Vedder St., Chicago.

4111. *Super Floor Surfacing Machine.* Catalog. 16 pp. Illus. Explains 5-day trial and 5-year guarantee policy

4112. *The Lightning Electric Floor Surfacer.* Circular. 4 pp. Gives details.

Triple "A" Machine Co., 4605 Ravenswood Ave., Chicago, Ill.

4771. *Booklet.* Illus. Describes their combination scraper.

FLOOR VOIDS FOR CONCRETING—See Concrete Accessories

FOUNTAINS, ELECTRICAL

Fink Co., John, 104 Lexington Ave., New York.

5481. *The Fountain Beautiful.* Illus. Leaflets. Cover the decorative characteristics of Fink electrical, portable fountains.

FRAMES, DOOR AND WINDOW—See Doors, also Windows

FROST PREVENTATIVE—See Concrete Processes

FURNACES—See Heating Equipment

GARBAGE DESTROYERS

Kerner Incinerator Co., 1027 Chestnut St., Milwaukee, Wis.

3641. *The Sanitary Elimination of Household Waste.* Folder M-30. Describes construction and operation of *Kernerator.*

GARBAGE RECEIVERS

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.

2953. *Descriptive Literature.* Illus.

GAS PRODUCERS

American Heating & Lighting Co., Morenci, Mich.

2131. *Gas for Country and Suburban Homes.* 166 pp. Illus.

GLASS

American Window Glass Co., Pittsburgh, Pa.

2211. *Complete Window Glass Specifications.* Folder. 4 pp. Illus.

Bayley Co., Wm., Springfield, O.

2388. *Bayley-Springfield Wire Glass Windows.* Bulletin. Illus.

International Steel & Iron Co., Evansville, Ind.

3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

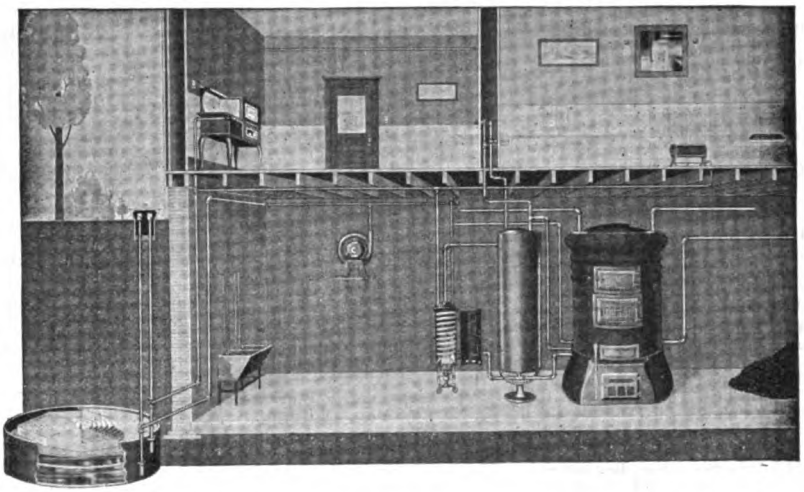
Mississippi Wire Glass Co., 220 5th Ave., New York.

4011. *General Catalog.* 36 pp. Illus. Takes up complete line of wire glass and ornamental sheet glass. Includes tests.

4012. *Factrolite.* Leaflet. Deals with the use of this type of glass.

Suburban Homes
When Gas Equipped
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and Profitably

The Clark Gas Producer Makes This Possible



The Clark Gas Producer can be installed in any home regardless of location. It provides fuel for cooking and heating that is cleaner—quicker—more reliable than coal or natural gas. Yet it costs the user less.

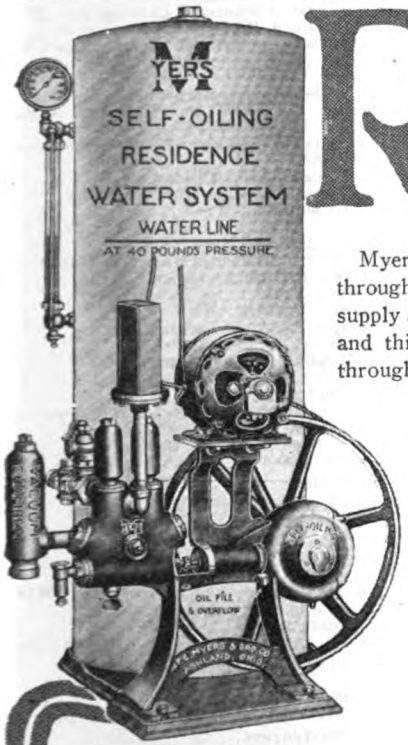
Builders find ready sale for country and suburban homes where gas is easily and economically available.

The installation is not costly. The machine is easy to operate and requires no special care. Clark Producers installed more than 25 years ago are giving good service today. Seventy homes in Morenci now use our equipment. And Morenci has a population of 1800.

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AMERICAN HEATING & LIGHTING CO.

MORENCI, MICHIGAN



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Myers Water Systems have always been built by specialists. There is over fifty years of experience in the manufacture of hand and power pumps behind the development and introduction of the numerous styles composing the Myers line. Every Myers Water System, regardless of its size or method of operation, carries with it a guarantee of satisfactory service, and the responsibility behind this guarantee is a permanent warranty of highest quality in design, materials and workmanship.

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PUMPS FOR EVERY PURPOSE
HAY TOOLS & DOOR HANGERS

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Selected List of Manufacturers' Literature

(Continued from page 154)

Plate Glass Manufacturers of America, 1st Natl. Bank Bldg., Pittsburgh, Pa.
4321. *The Age of Plate Glass.* Booklet. 20 pp. Illus. Discusses process of plate glass manufacture and suggests uses.
4322. *Plate Glass.* Booklet. 12 pp. Illus. Describes manufacture.

GLASS, ORNAMENTAL
American 3-Way-Luxfer Prism Co., 13 St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2201. *Lux Lens Pressed Tile.* 4 pp. Illus. Describes *Lux Lens* and *Spero Lens* for store fronts and transom lights.
2202. *3 Way-Luxfer Prisms.* 4 pp. Illus. Describes 3-Way Prismatic Glass for store fronts, transoms and upper sash.
Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* 36 pp. Illus. Takes up complete line of wire glass and ornamental sheet glass. Includes tests.
4012. *Factrolite.* Leaflet. Deals with the use of this type of glass.

GLAZING COMPOUND—See Caulking

GLUE POTS
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2347. *Descriptive Literature.* Illus.
Black Bros. Co., Inc., Mendota, Ill.
2471. *Bulletin 11-G.*. 2 pp. Illus. Describes electric glue pot.
Wallace & Co., J. D., 134-158 S. California Ave., Chicago.
4892. *Wallace Machines for Working Wood.* Illus. Catalog. 23 pp. Description of their electric glue pot.

GRILLES—See also Registers
Dow Co., 1025-51 Franklin St., Louisville, Ky.
2961. *Iron and Wire Work.* Folder G. 14 pp. Illus. Covers complete line of iron and wire products. Furnish estimates.
Garden City Plating & Mfg. Co., 1430 So. Talman Ave., Chicago.
3193. *Circular.* Shows standard designs in grilles and wickets of brass, bronze and steel.
Hart & Cooley Co., Inc., New Britain, Conn.
3301. *Grilles.* Catalog. Illus. Contains complete information.
Meyers Mfg. Co., Fred J., Hamilton, O.
3981. *General Catalog.* 110 pp. Illus. Covers entire line of wire, iron, bronze and brass products.
3982. *Folder.* 4 pp. Illus. Describes new type of grille.
Tuttle & Bailey Mfg. Co., 2 W. 45th St., New York.
4801. *Catalog—No. 78, and Special Booklet on Grilles.* Includes *Ferrocraft Grilles* in plain lattice and 500 special designs;
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section devoted to their perforated metal grilles. Designs in black and white.

GRINDING MACHINERY
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus.
Huther Bros. Saw & Mfg. Co., Rochester, N. Y.
3461. *Huther Grinding Attachment.* Leaflet. 2 pp. Illus.

GUARDS, WINDOW—See Grilles, also Ornamental Iron

GUTTERS—See Leaders, etc.

GYPSUM
United States Gypsum Co., 205 W. Monroe St., Chicago.
4814. *General Catalog RB1.*

HAMMERS—See Tools

HANGERS, DOOR—See Hardware

HARDWARE
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus.
Ives Co., H. B., New Haven, Conn.
3521. *Builders' Hardware.* Folder. Illus. Describes *Ives* line of builders' hardware, window and door specialties.
Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog. No. 57.* 414 pp. Illus. Presents complete line of *Myers pumps*, door hangers, store ladders, etc.
National Brass Co., Grand Rapids, Mich.
4081. *General Catalog.* 1925 edition. Illus. Covers complete *National* line of brass hardware.
National Mfg. Co., Sterling, Ill.
4091. *National Garage Hardware.* Catalog. 32 pp. Illus. Includes working drawings of garages.
4092. *Builders' Hardware.* Catalog No. 19. 120 pp. Illus.
4093. *Ornamental Ideas.* 24 pp. Illus. Deals with hinge and butt.
Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.
4171. *General Catalog.* No. 10. Illus. Presents complete line of hardware specialties and carpenters' tools.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4424. *Woodworking Vises & Manual Training Benches.* Illus. 11 pp. Shows several types of equipment, with prices.
4429. *Booklet.* Ill. Describes big door hardware for round houses and freight houses.
Sargent & Co., New Haven, Conn.
4521. *Details to Which Standard Hardware Can Be Applied.* Booklet. 6 pp. Illustrated. Treats on construction details.
4522. *Sargent Door Checks.* Folder. Illustrated.

HARDWARE, WINDOW AND DOOR
Austral Window Co., 101 Park Ave., New York.
5551. *Austral Sash Sustainer.* Literature. Concerns device used as substitute for window weights. Sample pair, 25 cents.
Caldwell Mfg. Co., 5 Jones St., Rochester, N. Y.
2601. *Suggestions for the Present Day Architect.* Booklet. 16 pp. Illus. Gives data for *Caldwell* sash balances.
Griffin Mfg. Co., Erie, Pa.
3271. *Hinges.* Book. 72 pp. Illus. Covers complete line.
3272. *Cellar Window Sets.* Folder. 4 pp. Illus.
3273. *Garage Hardware.* Folder. 4 pp. Illus.
3274. *Butt Hinges.* Folder. 6 pp. Illus.
Ives Co., H. B., New Haven, Conn.
3522. *Builders' Hardware.* Catalog No. 15. 148 pp. Illus. Covers complete line of *Ives* window and door hardware specialties.
Kawneer Co., 225 Front St., Niles Mich.
3596. *Contractors' Design Book.* 128 pp. Illus. Presents a selected list of store front designs.
3597. *Details Kawneer Solid Copper Store Front Construction.* Catalog L, 1925 edition. 32 pp. Illus. Comprises a treatise on installation and includes sectional and details views of various members of Kawneer solid copper store front construction.
Lyons Mfg. Co., New Haven, Conn.
5281. *Lyneo Casement Window Adjusters.* Folder. 4 pp. Illus. Shows operation of brass casement window adjuster.
McCabe Hanger Mfg Co., 425-427 W. 25th St., New York.
3852. *General Catalog.* No. 24-B. 60 pp. Illus. Covers house door, garage, folding partitions, and elevator door hangers.
National Mfg. Co., Sterling, Ill.
4091. *National Garage Hardware.* Catalog. 32 pp. Illus. Includes working drawings of garages.
4092. *Builders' Hardware.* Catalog No. 19. 120 pp. Illus.
4093. *Ornamental Ideas.* 24 pp. Illus. Deals with hinge and butt.
Pullman Mfg. Co., Rochester, N. Y.
4371. *15 Minutes Completes the Job.* Folder. 6 pp. Illus. Discusses *Pullman* spring sash balance.
4372. *Catalog No. 38.* Illus. Takes up all types of *Pullman* spring sash balance.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4421. *Distinctive Garage Door Hardware.* Illustrated Catalog.
4422. *Modern Hardware for Your Home.* Illus. 24 pp. Contains description and prices of door hangers, window hardware.
4428. *Catalog No. 40.* Lists sliding and folding partition door hardware.
4429. *Booklet.* Ill. Describes big door hardware for round houses and freight houses.
Sargent & Co., New Haven, Conn.
4521. *Details to Which Standard Hardware Can Be Applied.* Booklet. 6 pp. Illus. Treats on construction details.
4522. *Sargent Door Checks.* Folder. Illustrated.
Star Expansion Bolt Co., 147 Cedar St., New York.
5331. *Literature.* Describes *Dryvins*, their expansion shield.
Weisse Mfg. Co., La Crosse, Wisc.
4901. *Literature.* Describes combination glass and screen enclosed porches and casement window hardware.
Whitney Co., Vincent, 444 Mass. Trust Bldg., Boston, Mass.
5071. *Whitco Casement Hardware.* Decriptive literature.

HEATING EQUIPMENT
American Heating & Lighting Co., Morenci, Mich.
2131. *Gas for Country and Suburban Homes.* 16 pp. Illus.
American Radiator Co., 40 W. 40th St., New York.
2161. *The Ideal Fitter.* 21st edition of hand-book. 346 pp. Illus.
2162. *Ideal Type of Heat Machines.* 48 pp. Illus. Details.
2162. *Ideal Type of Heat Machines.* 48 pp. Illus. Details.
2164. *Corto.* 16 pp. Illus. Introduces new radiator.
Andrews Heating Co., 2001 Heating Bldg., Minneapolis, Minn.
2251. *Catalog.* Describes heating, plumbing equipment.
Babson Bros., Dept. A555, 19th St. and California Ave., Chicago.
5431. *Bulldog Pipeless Furnace. Book.* Illustrated. Deals with economy of *Babson* pipeless furnace.
Bovee Furnace Works, Waterloo, Iowa.
2491. *Warm Air Furnaces.* Broadside. Illus. Deals with *Bovee's* bungalow, horizontal radiator and electric fan blower types.
Burnham Boiler Corp., Irvington, N. J.
2571. *Letters To and Fro.* Booklet. Treats of the heating question.
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Covers complete line.
Forest City Foundry & Mfg. Co., Cleveland, O.
3141. *Monarch and Niagara Warm Air Furnaces.* Catalog No. 23
Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.
Hart & Crouse Co., Utica, N. Y.
5191. *Royal Heating Equipment.* Descriptive literature.
Hess Warming and Ventilating Co., 1207 So. Western Ave., Chicago.
3382. *Modern Furnace Heating.* Catalog. 48 pp. Illus. Describes *Hess* warm air heating systems.
B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.
Milwaukee Corrugating Co., Milwaukee, Wis.
40011. *Furnace and Stove Pipe and Fittings.* Catalog No. 25.
Richardson & Boynton Co., 260 5th Ave., New York.
5221. *Richardson Hot Water Heater.* Describes *Galvoxide Water Section* for use in connection with the *Richardson.*
5222. *Your Store.* This and another Booklet, for dealers.
Thatcher Co., 39 St. Francis St., Newark, N. J.
4762. *Catalog.* Contains information *Pipeless Furnace.*
4763. *Catalog.* Illus. Describes their *Tubular Furnace.*
Tuttle & Bailey Mfg. Co., 2 West 45th St., New York.
4802. *Tanbo Antique.* Sample of this Finish for Registers.
United States Radiator Corp., Detroit, Mich.
4831. *Capitol Boilers, Square Type.* Illus. Booklet. 25 pp. Gives description of boilers and several radiator patterns.
4832. *Capitol Boilers, Winchester Type.* Illus. Booklet. 23 pp. Describes construction and details of these boilers.

HEAT INSULATION—See Insulation

HINGES—See Hardware, Window and Door

HOISTS—See also Elevators
Brown Clutch Co., Sandusky, O.
2521. *Hoists.* Catalog. Illus. Covers all *Brown* types from hand winches to 6,000-pound capacity.
C. H. & E. Mfg. Co., Clinton & Mineral Sts., Milwaukee, Wis.
2583. *Descriptive Literature.* Bulletin. Illus.
Kimball Bros. Co., Council Bluffs, Ia.
3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.

HOUSE MOVING
LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3761. *Catalog.* 34 pp. Illus. Deals with house moving appliances.

INCINERATORS—See Garbage Destroyers

INJECTERS—See Water Systems

INSULATION
Armstrong Cork and Insulation Co., 197-24th St., Pittsburgh.
5531. *Armstrong Corkboard.* Bulletins. Illustrated. Material includes structural details and methods of laying over various types of construction.
Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints and Insulating Paper.* Descriptive literature.
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2463. *Bishopric for All Time and Clime.* Booklet. Illus. 44 pp. Describes their heavy weight insulating stucco and plaster base, stucco board, sheathing board, sound deadening stucco.
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2591. *Cabot's Heat Insulating Quilt.* Literature. Illus.

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OMAHA — Sunderland Bros. Co.
ST. LOUIS — McEwing & Thomas Clay Products Co.
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PITTSBURGH — Martin Brick Co.
CINCINNATI — Cincinnati Builders Supply Co.
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Selected List of Manufacturers' Literature

(Continued from page 156)

Celotex Co., 11 W. Washington St., Chicago.
2661. *Your Home.* Catalog. Gives information about *Celotex* and deals with homes. Price 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.
Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.
Flaxlinum Insulating Co., St. Paul, Minn.
3081. *Heat Insulation for Houses.* Treating heat insulation and its relation to residence to residence construction.
3082. *For Comfort and Economy.* Booklet. 32 pp. Illus. Deals with heat insulation for the home builder.
3083. *Standard Specifications.* File 19G. Illus. Contains specifications for heat insulating and sound deadening.
Johns-Manville, Inc., 292 Madison Ave., New York.
3559. *Insulating Materials.* 22 pp. Illustrated.
Ruberoid Co., 95 Madison Ave., New York.
4481. *Ru-ber-oid Facts Worth Knowing.* Illus. Booklet. 20 pp.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4815. *Gyp-Lap Sheathing Board.* Bulletins GL3, Misc. 1.
U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool In Architecture.* Booklet. Illus

IRONING BOARDS—See Built-In Features

JACKS, BUILDING
LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3762. *Jacks.* Descriptive literature.

JOISTS AND STUDS, PRESSED STEEL
General Fireproofing Co., Youngstown, O.
3227. *GF Steel Lumber.* Booklet. 12 pp. Illus. Deals with joists and studs for floor, roofs, and partitions.
3228. *GF Steel Joists.* Booklet. 18 pp. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Truscon Steel Co., Youngstown, O.
4798. *Truscon Steel Joists.* Catalog. Illus. 24 pp. Gives information of pressed steel beams and joists.

KITCHEN CABINETS—See Built-In Features
LABORATORY EQUIPMENT
Alberene Stone Co., 153 W. 23rd St., New York.
2035. *Descriptive Literature.* Soapstone for laboratory tables.

LADDER BRACKETS—See Brackets, Ladder
LATH, EXPANDED METAL AND WOOD—See Stucco Bases
LEADERS, FLASHINGS AND GUTTERS
Milwaukee Corrugating Co., Milwaukee, Wisc.
4004. *Milcor Rain Carrying Equipment.* Folder. 8 pp. Illus.
New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illus. Contains information regarding downspouts and gutters of *Horse Head* zinc.
Wheeling Corrugating Co., Wheeling, W. Va.
5031. *Hand Dipped Conductor Pipe.* Descriptive literature.

LEVELING RODS—See Levels and Transits
LEVELS AND TRANSITS—See Drafting and Surveying
LIFTS—See Elevators, also Hoists
LIGHTING—See Electrical Equipment
LIGHTNING RODS
Mast Lightning Rod Co., W. Milton, O.
5571. *Lightning Rods, Fixtures and Ornaments.* Catalog No. 4. Illustrated. Takes up line of copper and galvanized sectional rods.
Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Descriptive Catalog and Price List.* Shows different designs.

LIME
Kelley Island Lime and Transport Co., Cleveland, O.
3611. *Tiger Finish.* Catalog. Illus. Discusses use of *Tiger lime* in building work.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4816. *Bulletins HL1, HL2, HL3, HL4, Spec. 9.*
Woodville Lime Products Co., 622 Madison Ave., Toledo, O.
5131. *Leaflet.* Describes their brands of *Finishing Hydrated Lime.*
5133. *Quality from Stone to Finish.* Broadside

LINOLEUM—See Flooring
LOANS
Miller & Co., G. L., 30 E. 42nd St., New York.
5171. *Descriptive Literature* pertaining to the financing of building.

LUMBER AND WOODWORK
Birch Mfgs. Assn., 229 F. R. A. Bldg., Oshkosh, Wis.
2441. *Literature.* Tells of production and use of birch and kindred hardwoods. Gives information on woodwork finishing.
California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of Information Sheets California White and Sugar Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association
Chicago & Riverdale Lumber Co., Riverdale, Chicago.
5421. *Catalogs.* Illustrated. Cover entire line of doors, sash, lumber, etc.
Hartmann-Sanders Co., Eltson and Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. Price 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24 pp.
Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3812. *The Post Everlasting.* Booklet. 32 pp. Illus. Gives information on creosoted yellow pine fence posts, etc.
3813. *Poles That Resist Decay.* Booklet. 16 pp. Illus. Discusses telegraph, telephone and transmission line poles.
Morgan Sash & Door Co., Chicago, Ill.
4041. *Building With Assurance.* Catalog. 440 pp. Illus. Shows bungalows and houses (in color) with floor plans. Includes information on interior decorating, etc. Price, $2.50, refunded under special conditions.
Pacific Lumber Co. of Illinois, 2060 McCormick Bldg., Chicago.
4241. *Construction Digest.* Illus. Contains data and description.
Southern Cypress Mfg. Assn., New Orleans, La.
4611. *Descriptive literature.*
Stearns, A. T. Lumber Co., 87 Taylor St., Neponset, Boston.
4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawing of mantels, columns, doors, sash windows, blinds.
Weatherbest Stained Shingle Co., Inc., 145 Main St., North Tonawanda, N. Y.
4962. *Literature* deals with cost of *Weatherbest Stained Shingle* side walls. Includes samples showing Weatherbest color.
4963. *Book.* Newly published book, devoted to remodeling.
Western Pine Mfrs. Assn., 510-517 Yeon Bldg., Portland, Ore.
5011. *The Pondosa Story.* Booklet. Treats of development of Western Pine industry.

MAILING LISTS
Polk & Co., R. L., 325 Polk Bldg., Detroit, Mich.
4341. *Polk's Reference Book.* Contains index to mailing lists for uses of direct mail advertising.
Ross-Gould Co., 324 N. 10th St., St. Louis, Mo.
4471. *Catalog and Reference Book.* Contains index to various mailing lists for use in direct mail advertising.

MARKING DEVICES—See Branding Irons
MARQUISES
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus. Covers entire line of products.

METALS AND METAL BUILDING SPECIALTIES
American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
2181. *Reference Book. Pocket Edition.* Illus. 168 pp.
2182. *Apollo and Apollo-Keystone Galvanized Sheets.* Catalog. Illus.
2183. *Research in the Corrosion Resistance of Copper Steel.* Booklet. Illus. 24 pp. Gives technical information.
2184. *Facts Simply and Briefly Told.* Booklet. Illus. 16 pp. Gives non-technical statements on *Keystone Copper Steel.*
Bridgeport Brass Co., Bridgeport, Conn.
2511. *Seven Centuries of Brass Making.* Booklet. 77 pp. Illus.
2512. *Tested High Speed Brass Rod.* Booklet. 16 pp. Gives short treatise on manufacture of brass rod.
2513. *Data Book.* Booklet No. 16 48 pp. Illus. Tables and data.
2515. *Bridgeport Ledrite Rod-O-Graph.* Chart showing way to figure weight of brass rod to make screw machine parts.
Donley Bros. Co., 12920 Miles Ave., Chicago.
2954. *Donley Devices.* Catalog. 36 pp. Illus. Covers Donley line.
Edwards Manufacturing Co., Cincinnati, O.
2991. *Edwards Metal Roofing,* etc. Catalog. 224 pp. Illus. Covers complete line of Edwards products.
General Fireproofing Co., Youngstown, O.
32213. *GF Metal Building Specialties.* Folder A. I. A. File No. 16E2. 20 pp. Illus. Includes information on bridging, etc.
Globe Ventilator Co., Dept. L., Troy, N. Y.
3261. *Globe Ventilator* and *Globe Chimney Cap.* Provide specifications on contract work.
New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illustrated. Describes their leader pipes, eaves troughs, and other zinc products.
4157. *The Roof That Is Ever New.* Folder. Illustrated. Describes their Horse Head Zinc Roofing.

MILLWORK—See Lumber and Woodwork
MINERAL WOOL—See also Insulation
U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool in Architecture.* Booklet. Illus.

MOLDS, CONCRETE—See Concrete Machinery
MORTAR BOARDS AND BOXES
Donley Bros. Co., 12920 Miles Ave., Cleveland, O.
2959. *Mortar Boxes.* Descriptive literature concerning metal boxes.

MORTAR COLORS
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus. Includes description, testimonials, and samples.
Clinton Metallic Paint Co., Clinton, N. Y.
2731. *Clinton Mortar Color.* Folder. Illus. Gives directions for using and examples of application.
2732. *Color Card.* Portrays various shades.
2733. *Color Harmony in Brickwork.* Series of 6 folders. Illus.

OIL CLOTH—See Wall Covering, also Flooring
ORNAMENTAL IRON AND BRASS
American Brass Co., Waterbury, Conn.
2091. *Anaconda Extruded Shapes.* Folder. 4 pp. Illus. Contains color plate of full size extruded shapes of brass.
Cincinnati Iron Fence Co., 3300 Spring Grove Ave., Cincinnati, O.
2721. *Iron Fence, Gates, Grilles, Window Guards.* Broadside. Illus.
Dow Co., 1025-51 Franklin St., Louisville Ky.
2961. *Iron and Wire Work.* Folder G. 14 pp. Illus. Covers complete line of iron and wire products. Furnish estimates.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.
Mast Lightning Rod Co., W. Milton, O.
5571. *Lightning Rods, Fixtures and Ornaments.* Catalog No. 4. Illus. Deals with ornaments of bronze.
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section showing their ornamental iron fence and gates.

PACKAGE RECEIVERS
Donley Bros. Co., 12920 Miles Ave., Cleveland, O.
2955. *Descriptive literature.* Illus.

PAINTS, STAINS, VARNISHES AND WOOD FINISHES
Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago
2413. *Damproofing and Waterproofing Paints.* Descriptive.
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2592. *Cabot's Creosote Stains.* 16 pp. Illus. Gives description.
Certain-teed Products Corp., 100 E. 42nd St., New York.
2672. *Paints, Enamels, Varnishes, etc.* Literature. Includes samples, color cards, and prices.
General Fireproofing Co., Youngstown, O.
32214. *GF Floor Enamel.* Bulletin No. 155. 4 pp. Illus. Treats preserving and decorating of cement floors.
Glidden Co., Cleveland, O.
3251. *Ripolin Specification Book.* 12 pp. Contains specifications and instructions for application of *Ripolin.*
3252. *Why Ripolin Has an International Reputation.* Illus. 24 pp. Shows various uses of *Ripolin Enamel* paint.
Johnson & Son, S. C., Dept. BA4, Racine, Wis.
3561. *Proper Treatment for Floors, Woodwork and Furniture.*
3562. *Portfolio of Wood Panels.* 14 pp. Illus. Contains actual panels of finished woods. Includes finishing data.
New Jersey Zinc Co., 160 Front St., New York.
4152. *Majac Handbook.* Illus. *Majac No. 1,* a zinc oxide paint.
4153. *Zinc as a Paint Piament.* Pamphlet. Illus. Explains use of zinc oxide as a paint pigment.
4154. *40-40-20.* Booklet. Describes new exterior paint made from *Albalith* and XX zinc oxide with 40-40-20 formula.
Toch Bros., 110 E. 42nd St., New York.
5331. *Specifications.* 60 pp. Illus. catalog. Specifications for damproofing, waterproofing, enameling.

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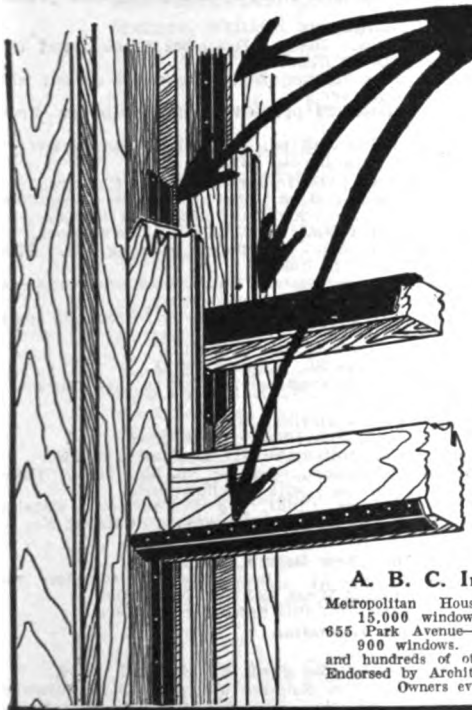
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Selected List of Manufacturers' Literature

(Continued from page 158)

Truscon Laboratories, Cor. Caniff Ave. and Grand Trunk R. R., Detroit, Mich.
4781. *Spread of Sunshine Inside.* Book. Describes methods for light-saving through use of light-reflecting enamels.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4817. *Textone.* T3. Architects' specifications for *Textone.*

PAINTS, CEMENT
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2461. *Bishopric Sunfast Finish.* Folder. Illus. Shows reproductions in color of houses with finish applied.
2462. *Color Card.* Contains sample colors of *Sunfast Finish.*
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus.
Sandusky Cement Co., Cleveland, O.
5183. *Medusa Cement Paint.* Descriptive literature.

PANELS—See Veneer, Wallboard, Panels, Wood

PANELS, WOOD
American Plywood Corp., New London, Wis.
2151. *Plywood Stock List.* Concerns use of panels for built-in work.

PARQUET FLOORING—See Flooring

PARTITIONS
Alberene Stone Co., 153 W. 23d St., New York.
2032. *Illustrated literature* on toilet partitions of soapstone.
McCabe Hanger Mfg. Co., 425-427 W. 25th St., New York.
3853. *Accordion and Folding Door Hangers.* Booklet No. 22-B.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4426. *Partitions.* Illus. Booklet. 32 pp. Shows tracks and hangers for various styles of door partitions.
4428. *Catalog No.* 40. Lists sliding and folding partition door hardware.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4818. *Pyrobar Partition and Furring Tile Book.* Bulletin PT3.
Weis, Henry, Mfg. Co., Atchison, Kan.
4981. *Weisteel Compartments.* Catalog 11. Illus. Plans, specifications and details of metal partitions and doors for toilet rooms, shower and dressing rooms, hospital articles, etc.

PERGOLAS
Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3332. *Arbors and Pergolas.* Circular D-61. 4 pp. Illus.

PIPE—See also Metals and Metal Building Specialties
American Brass Co., Waterbury, Conn.
2092. *Ten Years Hence.* Booklet. 16 pp. Illus. Discusses the problem of permanent water pipe installation in the home.
2093. *Brass Pipe for Water Service.* Publication B1, 2nd edition. Presents data for architects, engineers and contractors.
Bridgeport Brass Co., Bridgeport, Conn.
2513. *Data Book.* Booklet No. 16. 48 pp. Illus. Tables and data concerning sheet brass and brass tubing.
2514. *Brass Pipe and Pipings.* Bulletin No. 15. Illus. Contains tables, charts, etc., for design of hot-water installations.
Johnson Plumbing Supply Co., 3641-43 So. Halsted St., Chicago.
3571. *Johnson Catalog.* Illus. Covers entire line.

PIPE, CONDUCTOR
New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illus. Contains information regarding downspouts and gutters of *Horse Head* zinc.
Wheeling Corrugating Co., Wheeling, W. Va.
5031. *Hand-Dipped Conductor Pipe.* Descriptive literature.

PLANS
American Face Brick Assn., 130 N. Wells St., Chicago.
Bungalow and Small House Plans. (See listings under Brick.)
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2465. *Bishopric Plan Book.* Illus. Contains 32 suggestions for houses costing from $7,000 to $20,000. Price, 25 cents.
Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.
2711. *Five Room Bungalow.* Blue print plans.
Common Brick Manufacturers' Assn., 2121 Title Guarantee Bldg., Cleveland, O.
City and Farm House Plans. (See listings under Brick.)
Stevenson, R. L., 521 Paddock Bldg., Boston, Mass.
4671. *Homes of Character.* Folder. 4 pp. Illus. Describes the book, "Homes of Character," containing 100 designs of houses from $5,000 to $20,000, with floor plans, etc. Price of books, $2.00 de Luxe edition; $1.00 paper bound.
Stillwell, E. W., & Co., 270 California Bldg., Los Angeles, Cal.
4691. *All-American Homes.* 50 houses, 7 to 10 rooms. $1.00.
4692. *The New Colonials.* 50 houses, 6 to 10 rooms. $1.00.
4693. *Southwest Stucco Homes.* 75 duplexes to bungalows. $2.00.
4694. *Little Bungalows.* 75 houses, 3 to 5 rooms. $1.00.

PLASTER BASE—See Stucco Base, also Lath

PLASTER BOARD—See Wallboard

PLUMBING EQUIPMENT—See also Bathroom Fixtures
Alberene Stone Co., 153 W. 23d St., New York.
2033. *Illustrated literature* on soapstone kitchen sinks.
Andrews Heating Co., 2001 Heating Bldg., Minneapolis, Minn.
2251. *Catalog.* Describes Heating, Plumbing Equipment.
Crane Co., 836 S. Michigan Ave. Chicago.
2841. *Plumbing Suggestions for Home Builders.* 80 pp. Illus.
2842. *Plumbing Suggestions for Industrial Plants.* 44 pp. Illus.
Curtin Valve Co., A. F., Medford, Mass.
5391. *Curtin Flush Valve.* Catalog. Describes action of valve for noiseless tank filling.
Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.
Johnson Plumbing Supply Co., 3641-43 So. Halsted St., Chicago.
3571. *Johnson Catalog.* Illus. Covers entire line.
B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.
Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
3631. *Kenney Curtainless Shower.* Catalog A. Illus. Concerns several types of curtainless showers.
Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4283. *Penberthy Injectors.* Series of folders. Illus. Describe various types and models
4284. *Washing Machine Drainer.* 4 pp. Illus. Explains how product is used with faucet attachment.
4285. *Safeguard Water Gage.* 4 pp. Illus.
4281. *Automatic Cellar Drainer.* Folder. 8 pp. Illus. Gives prices.
4289. *Sales Talks.* Semi-monthly pamphlet for jobbers.

PLYWOOD—See Veneer and Veneering

PORCHES
Thomas J. Malia, 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes porch enclosures, metal weather strips and rust-proof fly screens.
Weisse Mfg. Co., La Crosse, Wis.
4991. *Literature.* Describes combination glass and screen enclosed porches.

PRESSES—See Clamps

PRISMATIC GLASS—See Glass, Ornamental

PUMPS
C. H. & E. Manufacturing Co., Clinton & Mineral Sts., Milwaukee, Wis.
2582. *Power-Driven Diaphragm, Road, and Centrifugal Pumps.* Literature. Illus.
Dayton Pump & Mfg. Co., Dayton, O.
2901. *Catalog.* Describes their pumps for light and heavy work.
Fairbanks, Morse & Co., 909 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets. Directs attention of builders and architects to home water systems.
Flint & Walling Mfg. Co., Kendallville, Ind.
3091. *Running Water Under Pressure.* Catalog No. 115. 48 pp. Illus. Deals with water systems, including pumps, tanks, etc.
Kwik-Mix Co., Port Washington, Wis.
3752. *High Lift Diaphragm Pumping Units.* Leaflet. 2 pp. Illus.
Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 57. 414 pp. Illus. Presents complete line of *Myers* pumps, door hangers, store ladders, etc.

PYROBAR GYPSUM TILE
United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletin PT3.* Architectural data, *Pyrobar* partition tile.

RADIATORS
American Radiator Co., 40 W. 40th St., New York.
2164. *"Corto, the Radiator Classic."* 16 pp. Illus. Introduces and describes addition to company's line.
2161. *The Ideal Fitter.* 21st edition of hand book. 346 pp. Illus. Contains tables and specifications concerning radiator fitting.
Johnson Plumbing Supply Co., 3641-43 So. Halsted St., Chicago.
3571. *Johnson Catalog.* Illus. Covers entire line.
United States Radiator Corp., Detroit, Mich.
4834. *Triton Plan U. S. Radiators.* Illustrated booklet. 23 pp. Gives details of various patterns and types.

RADIO PRODUCTS
Mast Lightning Rod Co., W. Milton, O.
5571. *Mast Radio Connectors.* Catalog No. 4. Deals with sectional form of lightning rod for aerial use.
Penberthy Injector Co., Holden Ave., and Grand Trunk Ry., Detroit, Mich.
4286. *Radio Apparatus.* Series of folders. Illus. Describe *Penberthy* head phones, loud speakers, crystal sets, etc.
Pole & Tube Works, Inc., Newark, N. J.
4331. *Flag Poles and Radio Mast.* Provide designs for contemplated installations.

RANGES—See also Heating Equipment
American Heating & Lighting Co., Morenci, Mich.
2133. *Clark Jewel Stoves.* 12 pp. Illus. For use with cold process gasoline gas.
American Stove Co., Lorain, O.
2191. *Catalog No. 94.* Illus. 70 pp. Describes *Clark Jewel Gas Stoves* with *Lorain Heat Regulator.*
2192. *Catalog No. 95.* Illus. 24 pp. *Direct Action Oil Stoves* with *Lorain High Speed Burner.*
2194. *Catalog No. 97.* Illus. 24 pp. Gives information on direct action coal ranges.
2195. *Catalog No. 117.* Illus. 42 pp. Describes *Clark Jewel* oil and gasoline stoves with *Lorain* burners.
Ohio State Stove & Mfg Co., 666 Lakeshore Drive, Chicago.
4231. *The Kab Range.* Catalog BA-3. Illus. Describes a combination of the *Packer All-Steel Kitchen Cabinet* and *Ranges.*
Standard Gas Equipment Corp., 18 E. 41st St., New York.
4621. *Vulcan Gas Ranges and Appliances.* Catalog 48. Illus. 70 pp. Describes complete line.
4622. *Vulcan Gas Equipment* for Hotels, Hospitals, Restaurants, etc.
4623. *The Vulcan Bulletin.* Monthly house organ.
4624. *How Kitchen Space Was Saved in Planning.* Practical specification folder with plans.
4625. *Oriole Gas Ranges.* Catalog. 50 pp. Illus.
Thatcher Co., 39 St. Francis St., Newark, N. J.
4764. *Catalog.* Illus. Gives information relating to their ranges.

REFRIGERATORS
Herrick Refrigerator Co., Waterloo, Ia.
3371. *Refrigerators.* 56 pp. Describes various types.
McCray Refrigerator Co., 2464 Lake St., Kendallville, Ind.
3861. *Refrigerators for Residences.* Catalog No. 95. Illus. Takes up various types and sizes with specifications.
3862. *Refrigerators for Hotels, Clubs, and Restaurants.* Catalog.
3863. *Refrigerators for Hospitals and Institutions.* Catalog No. 64.

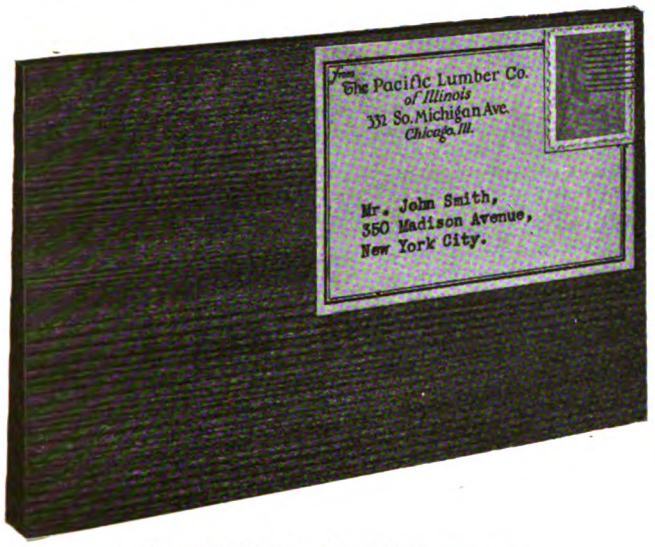
REGISTERS
Hart & Cooley Co., Inc., New Britain, Conn.
3302. *Registers.* Catalog No. 24. Illus. Contains complete list.
Tuttle & Bailey Mfg. Co., 2 West 45th St., New York.
4802. *Tanbo Antique.* Sample of this finish for registers.

ROOF INSULATION—See Insulation

ROOFING MACHINERY
Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2071. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2072. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.
Hansen Co., L., 2303 Ward Ave., Kansas City, Mo.
3281. *Roofing Tile.* Bulletin. Explains use of Hansen machines.
3282. *Circular.* Describes roof tile making machinery.

ROOFING MATERIALS
American Insulation Co., Roberts Ave. and Stokley St., Philadelphia.
2142. *Make Your Next Roof Last.* 6 pp. Illus. Deals with *Eternit* asbestos shingles.
2143. *Building a Roof That Beautifies and Lasts.* 22 pp. Illus.
American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
2186. *Better Buildings.* Catalog. 32 pp. Describes corrugated and formed sheet steel roofing and siding products.
2187. *Copper—Its Effect Upon Steel for Roofing Tin.* Catalog. Illus.

Changing interest in Redwood to conviction



REDWOOD advertising, government bulletins and records of rot-resisting Redwood trees that have lain for centuries on the ground and remained free from decay, have built up faith in Redwood's special fitness for exterior use.

Throughout the 1925 building season we are sending samples of TPL Co. Redwood Siding to thousands of home owners and builders who answer our advertisements. Redwood's grain and texture, natural beauty and freedom from knots is changing interest in Redwood to conviction that it should be used on their buildings.

Builders and architects know from experience that when TPL Co. Redwood Siding is used, there is a minimum of waste because it comes in securely tied bundles of standard lengths and is always up to grade specifications. Every piece is fit to use and ready to use.

To builders and architects we will gladly send samples of TPL Co. siding and millwork free on request, together with our "Construction and Engineering Digest," with detailed information on Redwood for exterior construction—as siding, shingles, and finish, foundation timbers and mudsills, door and window frames, cornices, pergolas, summer houses and garden furniture, mouldings, railing, balusters and porch columns, for lath and lattice work and for greenhouse construction. Write today.

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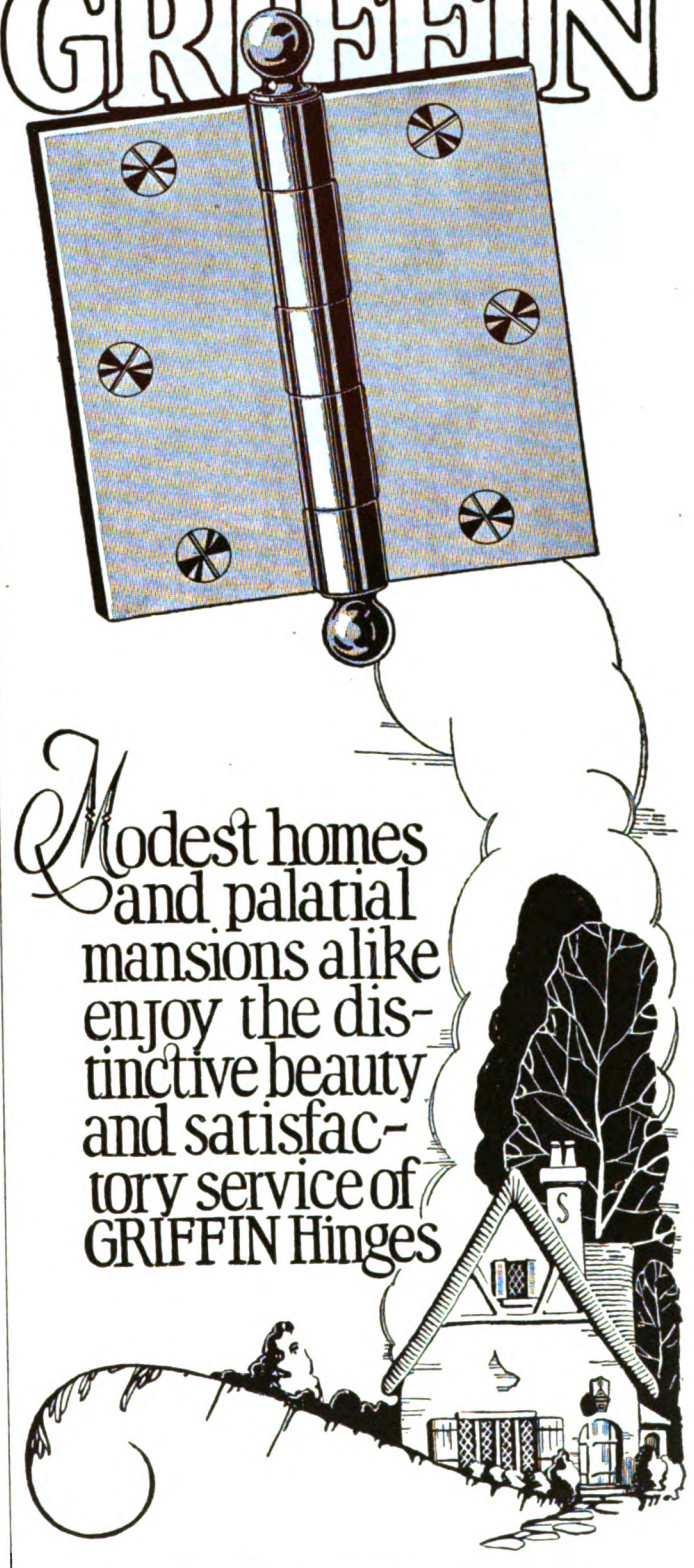
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Selected List of Manufacturers' Literature

(Continued from page 160)

Asbestos Shingle, Slate & Sheathing Company, Ambler, Pa.
2281. *Ambler Asbestos Shingles.* Catalog. 44 pp. Illus.
2282. *Ambler Asbesto Corrugated Roofing and Siding.* Catalog.
2284. *Engineer's Data Sheets.* 40 pp. Illus. Specifications for *Ambler* roofing and siding.

Barrell Co., Wm. L., of N. Y., Inc., 50 Leonard St., New York.
2361. *Con-ser-tex Canvas Roofing.* Describes treated fabric used for roofing, with directions for laying.

Barrett Co., 40 Rector St., New York.
2371. *Better Home for Old Houses.* Shows common type of old houses. Contains suggestions from leading architects.
2372. *Barrett Roofings for Every Purpose.* Folder.
2373. *Barrett Special Products.* Folder. Describes waterproofing materials and wood preservatives.
2374. *Barrett Giant Shingles.* Folder.
2375. *Barrett Specialties.* Booklet.
2376. *Handbook.* 96 pp. Describes products.

Beaver Products Co., Inc., Buffalo, N. Y.
2401. *Catalog.* Illus. Describes their shingles, roll roofing, etc.
2402. *Literature.* Describes plan for repair and remodeling work on time payment plan.

Beckman-Dawson Roofing Co., 11 W. Jackson Blvd., Chicago.
2411. *Shelter.* Booklet. 16 pp. Illus. Takes up development of roofing material from primitive times to today.
2412. *Asphalt Shingles.* Series of folders. Deal with tests and application of *Winthrop* tapered shingles.

Bird & Son, East Walpole, Mass.
2453. *Liquid Roof Coating.* Folder. 4 pp. Illus. Explains use as protectant. Includes description of plastic cement.

Boyle & Co., John, Inc., 112 Duane St., New York.
2051. *Prepared Canvas.* 4 pp. Illus. Concerns *Bayonne* roof and deck cloth. Includes prices.

Carey Co., Philip, 520-540 Wayne Ave., Cincinnati, O.
2641. *Before You Build.* Booklet. Discusses use and qualities of *Asfaltslate.* Sample sent.

Certain-teed Products Corp., 100 E. 42nd St., New York.
2673. *Certain-teed Roofs.* Literature. Includes color cards, prices.

Cortright Metal Roofing Co., Philadelphia, Pa.
2831. *Cortright Metal Shingles.* Booklet. 8 pp. Illus. Takes up various designs of this product.
2832. *Catalog.* Illus. Deals with metal shingle roofing.

Edwards Manufacturing Co., Cincinnati, O.
2091. *Edwards Metal Roofing, etc.* Catalog. 224 pp. Illus. Covers complete line of *Edwards* products.

Emack Co., John D., 17 E. 49th St., New York.
3021. *Olde Stonesfield Roofs.* Booklet 37A. Illus. Shows houses with *Olde Stonesfield Roofs.*
3022. *Thatchslate.* Booklet 37B. Illus.

Ford Roofing Products Co., 529 So. Franklin St., Chicago.
3131. *Cyclone Shingles.* Describes the *Ford* asphalt shingle.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.

Johns-Manville, Inc., 292 Madison Ave., New York.
35512. *Asbestos Roofing.* 4 pp. Illus. Takes up *Brooks Brand,* white top roofing.
35513. *Rocks or Rags.* 14 pp. Illus. Tells of material used in *J-M* shingles.
35515. *Ready-to-Lay Roofing.* 16 pp. Ill.

Keystone Roofing Mfg. Co., York, Pa.
3661. *A Distinctive Roof.* Booklet. Describes application of *Hexo-Diamond* slate-coated asphalt shingle. Includes sample.

Knickerbocker Slate Corporation, 153 E. 38th St., New York.
3701. *Slate.* Booklet. 16 pp. Illus. Deals with roofing and structural slate and blackboards.

Malleable Iron Fittings Co., Branford, Conn.
5311. *Nail Knowledge.* Booklet. Illus. 16 pp. Gives data on their zinc coated, rust-proof shingle and slating nails.

Milwaukee Corrugating Co., Milwaukee, Wis.
4006. *Milcor Slate Roofs.* 12 pp. Illus. *Titelock Metal Tile.*
4007. *Milcor Roofs of Permanent Beauty.* 4 pp. Illus. Shows use of Milcor Spanish Tile.

Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City, N. J.
4121. *Shingles That Last.* Illus. Offers various types of metal and asbestos shingles and roofing material.
4122. *Metal Shingles, Spanish Metal Tile, and Metal Roofing.* Literature. Illus.

Nelson Mfg. Co., B. F., Minneapolis, Minn.
4131. *Quality Roofs.* Folder. 12 pp. Illus. Deals with *Nelson Master Slab Roof.* Includes plates in color and samples.

New Jersey Zinc Co., 160 Front St., New York.
4155. *Standing Seam Horse Head Zinc Roofing.* Folder. Includes instructions for laying details, and data.
4157. *The Roof That Is Ever New.* Folder. Illustrated. Describes their Horse Head Zinc Roofing.

Richardson Co., Lockland, Cincinnati, O.
4411. *Biskalt Membrane Roofs.* 36 pp. Contains specifications for applying membrane roof over boards and concrete.
4412. *Roofs of Distinction.* Illus. catalog. 20 pp. Discusses roofing problems, weather defense, etc.
4413. *Lok-Lap Asphalt Shingles.* Illus. 10 pp. Describes laying of this shingle in various designs.
4414. *What Color for the Roof?* Illus. booklet. 19 pp. Takes up uses of *Multicrome* roofs in various styles and types.

Ruberoid Co., 95 Madison Ave., New York.
4481. *Ru-ber-oid Facts Worth Knowing.* Illus. Booklet. 20 pp.
4482. *Eight Folders.* Series of 8. Deals with strip shingles, roofing, liquid fibre-cement, roof coating, etc.

Stearns Lumber Co., A. T., 87 Taylor St., Neponset, Boston, Mass.
4642. *Cypress Lumber and Its Uses.* Booklet. Illus. 48 pp. Describes uses of cypress for exterior and interior work.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4809. *Bulletin RT27.* Architectural data. *Pyrobar* construction.
4813. *Bulletin SP2. Sheetrock Pyrofill* roof and floor construction.

Vendor Slate Co., Inc., Easton, Pa.
4861. *A Book for Architects.* Illus. Catalog. 24 pp.
4862. *The Vendor Book of Roofing Slate for Architects.* Illus. 44 pp. Contains information on slate in various architectural uses; comprises treatise on architectural roof design.

Weatherbest Stained Shingle Co., Inc., 145 Main St., North Tonawanda, N. Y.
4961. *Book.* Describes *Weatherbest Thatched Effect Roof Construction.* Also, a set of samples showing *Weatherbest* colors.
4963. *Book.* Devoted to remodeling of old homes.

Wheeling Corrugating Co., Wheeling, W. Va.
5032. *Descriptive literature.*

ROOF TRUSSES

McKeown Bros. Co., 21 E. 40th St., New York.
3871. *Clear Floor Space.* Folder. 4 pp. Takes up various types of trusses used in building construction.

ROUTERS AND CARVERS—See Woodworking Machinery

RULES—See Drafting and Surveying

SAFETY BRACKETS—See Brackets

SALAMANDERS

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2512. *Donley Salamanders.* Leaflet. Illus.

SANDERS—See Floor Surfacing Machinery

SANDPAPERS—See Woodworking Machinery

SANITAS—See Wall Covering

SASH—See Windows, also Frames

SASH BALANCES—See Hardware, Window

SASH CORDS

Bayley Co., Wm., Springfield, O.
2387. *Bayley-Springfield Operators.* Booklet P19. 8 pp. Illus. Describes apparatus for operating continuous windows.

Samson Cordage Works, 88 Broad St., Boston, Mass.
4501. *There Is a Difference in Sash Cord.* Folder. Illus. Describes *Spot* sash cord and *Phoenix* sash cord.
4502. *Catalog.* Includes samples of sash cord.

SAW FILES AND SETTERS

Atkins & Co., E. C., Indianapolis, Ind.
2301. *Saws, Saw Tools and Machine Knives.* Catalog. 272 pp. Illus. Covers complete line of *Atkins* saws, saw filers, knives, etc.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2345. *Descriptive literature.* Illus.

Foley Saw Tool Co., 912-18 E. Lake St., Minneapolis, Minn.
3101. *Foley Automatic Saw Filer and One-Minute Rotary Saw Setting Tool.* Folder. 12 pp. Illus.

SAWS & SAW MACHINERY—See also Woodworking Machinery

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2054. *Sawing with Elbow Grease or Gasoline?* Catalog. Illus. Describes *Jiffy* Portable Saw Rig.

American Saw Mill Machinery Co., 61 Main St., Hackettstown, N. J.
2171. *Catalog No. 21.* Describes circular saws of all sizes.
2172. *General Catalog. No. 22 and Special Bulletin No. 77.* Describes sawing machinery for use in job and in shop.

Atkins & Co., E. C., Indianapolis, Ind.
2301. *Saws, Saw Tools and Machine Knives.* Catalog. 272 pp. Illus. Covers complete line of *Atkins* saws, saw filers, knives, etc.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2348. *Barker-State Saws.* Bulletin. Illustrated. Describes universal and fixed type of pedestal electric saws.

Barnes Co., W. F. & John, Rockford, Ill.
2351. *Barnes Catalog.* 38 pp. Illus. Covers line of saws, formers.
2352. *Barnes Motor-Driven and Foot-Power Woodworking Machines.* Booklet. 14 pp. Illus. Takes up various types of machines.

C. H. & E. Manufacturing Co., Clinton & Mineral Sts., Milwaukee, Wis.
2581. *Home Builder's Saw Rig.* Bulletin. 4 pp. Illus. Furnishes description, specifications and prices.

Crescent Machine Co., 206 Main St., Leetonia, O.
2861. *Crescent Saw Tables.* Catalog. 20 pp. Illus. Covers complete line of *Crescent* saw tables. Includes four additions.

DeWalt Products Co., Leola, Lancaster, Pa.
2942. *Portable Motor-Driven Saw Table.* Illus. Deals with the various characteristics of this machine

Gallmeyer & Livingston Co., Grand Rapids, Mich.
3181. *Band Saws and Saw Benches.* Illus. Contained in booklet *Union Woodworking Machines.*

Heston & Anderson, 106 S. 16th St., Fairfield, Iowa.
5501. *H & A Portable Electric Machines.* Circular. Illustrated. Interests the builder in H & A line of cut-off, rip and band power saws.

Hutchinson Mfg. Co., Norristown, Pa.
3451. *Don't Let Dollars Slip Through Your Fingers.* Folder. 6 pp. Illus. Describes *Speed Marvel Worker.*
3452. *Bench Jointers.* Folder. 4 pp. Illus. Presents *Speed Marvel* 4 and 6-inch jointers.
3453. *Beaver.* Folder. 4 pp. Illus. Describes Woodworker.

Huther Bros. Saw & Mfg. Co., Rochester, N. Y.
3462. *Huther Catalog.* No. 38. Illus. Covers complete line.
3463. *Huther Pocket Size Catalog.* No. 43. 100 pp. Illus. Describes line of dado heads, milling saws, etc.

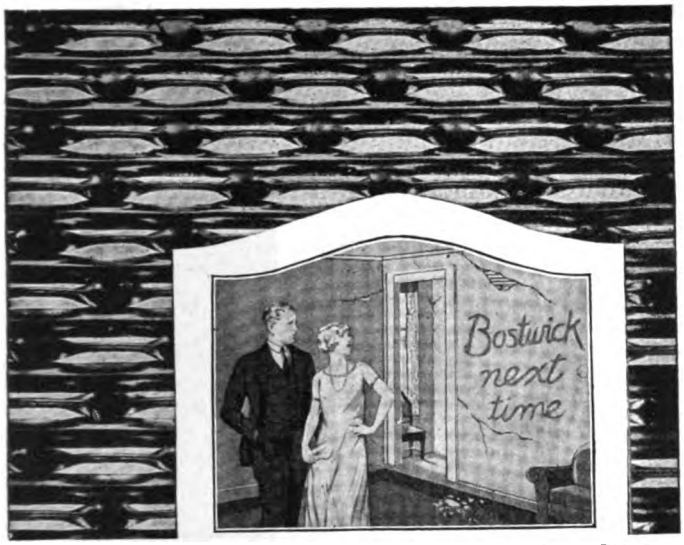
Kennedy, Ralph, 117 N. 7th St., Philadelphia, Pa.
3621. *The Kennedy Utility Saw.* Descriptive literature. Describes product for general work.

Parks Ball Bearing Machine Co., 1540-46 Knowlton St., Cincinnati, O.
4261. *Parks Woodworking Machines.* Catalog E. 42 pp. Illus. Includes details and specifications of complete line.
4262. *Cabinet Shop Special.* Bulletin. No. 7. 6 pp. Illus. Describes Parks' combination woodworking saw.
4264. *Planning Mill Special.* Bulletin. C-85. 6 pp. Illus.

Sheldon Mfg. Co., Inc., Box 25, Neahawka, Neb.
4563. *Four Leaflets and Folders.* Illus. Describes their *Model A* portable gas engine, saw rig and *Model B* portable electric

Tannewitz Works, Grand Rapids, Mich.
4741. *Variety Saw Benches.* Bulletin. Describes a machine for all classes of work.
4742. *Sawing Machinery.* Complete Catalog. Illus. Comprises bulletins of many types of machines, with specifications.

Wallace & Co., J. D., 134-158 S. California Ave., Chicago.
4891. *Wallace Bench Machines.* Illus. Loose leaf catalog. 22 pp. Describes various portable machines.
4892. *Wallace Machines for Working Wood.* Illus. Catalog. 23 pp. Lists and describes several types of woodworking equipment.
4893. *The Woodworking Pictorial.* A bulletin of suggestions.



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OWNERS want their *new* homes to be better homes. The defects in houses they now own or rent are the very reasons that send them, check in hand, to the builder of fine homes.

The commonest and most needless fault is cracked and broken plaster—needless because Bostwick "Truss-Loop" Metal Lath prevents cracks while it renders the home fire-safe.

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The very noticeable air of neat attractiveness surrounding this home is due largely to the Green WEATHERBEST Stained Shingles used on the roof and the thick butt 24" Silver Gray WEATHERBEST Stained Shingles on the sidewalls. Owned by Mr. Charles E. Pierson of Pierson & Bro., Lumber Dealers at Terre Haute, Ind.

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FOR ROOFS AND SIDEWALLS

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Selected List of Manufacturers' Literature

(Continued from page 162)

SAW RIGS—See Woodworking Machinery

SAW SETTING TOOLS—See Saw Filers and Setters

SCAFFOLDING—See also Brackets

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.
3173. *Gabriel Scaffolding.* Descriptive literature.

Steel Scaffolding Co., Evansville, Ind.
4651. *Catalog C.* Illus. 16 pp. Describes *Trouble-Saver* Steel Scaffolding, giving prices.

SCHOOLS

Chicago Tech College, 1038 Chicago Tech. Bldg., Chicago.
2711. *How To Read Blue Prints.* Booklet. Illus. Includes set of blue print plans.
2712. *Trial Lesson.* Includes blue prints and description of home-study course in architectural drafting.

SCREEN MANUFACTURERS' MACHINERY

DeWalt Products Co., Leola, Lancaster, Pa.
2943. *DeWalt Machinery.* Folder. 4 pp. Illus. Takes up application of this machine for screen manufacture.

Markwell Mfg. Co., 176 Franklin St., New York.
3941. *Markwell Catalog.* 30 pp. Illus. Describes various appliances for the sash and screen maker.
3942. *Screens for Profit.* Folder. 4 pp. Illus

SCREENS

American Brass Co., Waterbury, Conn.
2004. *Screens that Meet the Test.* Booklet. 16 pp. Illus. Describes development of screening from historical angle. Discusses use of *Antique* or *Golden Bronze* wire screens.

American Wire Fabrics Co., 208 S. La Salle St., Chicago.
2221. *Catalog of Screen Wire Cloth.* Illus. Deals with line of black enamel, galvanized, American bronze screen cloth.
2222. *Monel Metal Screen.* Folder. 8 pp. Illus. Describes tests made on monel metal screen cloth. Includes specifications.
2223. *Wire Cloth Table.* Shows number sq. ft. per roll and sq. ft. in various widths and lengths.

Dennis & Co., W. J., 2110 W. Lake St., Chicago.
2012. *Dennis Screen Moulding.* Describes product for use in the making of screens.

Gilbert & Bennet Mfg. Co., 937-9 1st Nat'l Bank Bldg., Chicago.
3241. *Pearl Wire Cloth.* Contains description and samples.

Malia, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes rust-proof fly screens, porch enclosures and metal weather strips.

New Jersey Wire Cloth Co., Trenton, N. J.
4141. *A Matter of Health and Comfort.* Booklet. Illus. Discusses use of *Jersey* copper insect screen cloth. Includes samples.

Wickwire Spencer Steel Corp., Worcester, Mass.
5082. *Hardware Products.* Devotes section to screen cloth.

SEWAGE DISPOSAL—See Plumbing Equipment

SHADES AND SHADE ROLLERS

Edstrom, Wetmore & Henderson, Warren, Pa.
2081. *Automatic Stop Shade Rollers.* Descriptive literature.

SHAPERS—See Woodworking Machinery

SHAFTS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2346. *Flexible Shafts.* Bulletin. Illus.

SHEATHING—See Insulation, also Stucco Base

SHEATHING PAPER—See Building Paper

SHELVES

Garden City Plating & Mfg. Co., 1430 S. Talman Ave., Chicago.
3191. *Adjustable Shelves.* Literature. Includes samples.

SHINGLES—See Roofing Materials

SHINGLE STAINS—See Paints, Stains, Varnishes.

SHOWERS—See also Plumbing, also Bathroom Fixtures.

Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
3631. *Kenney Curtainless Shower.* Catalog A. Illus. Concerns several types of curtainless showers.

SIDING—See Lumber, also Roofing Materials

SKYLIGHTS

American 3-Way Luxifer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2203. *3-Way Ventilating Skylights.* 4 pp. Illus. Treats with product designed for public garages, laundries, etc.
2204. *Steelead.* Describes puttyless, metal skylight construction.
2205. *3-Way Reinforced Concrete* Discusses concrete and glass.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus. Covers entire line of pdoructs.

Milwaukee Corrugating Co., Milwaukee, Wis.
4008. *Milcor Guide.* Illus. Explains details of *Puttyless Skylight.*

SLATE—See also Roofing Materials

Emack Co., John D., 17 E. 49th St., New York.
3022. *Thatchslate.* Booklet 37B. Illus.
3023. *Olde Stonesfield Flagging, Walks, Terraces and Coping.* Booklet 37C. Illus.

Knickerbocker Slate Corporation, 153 E. 38th St., New York.
3701. *Slate.* Booklet. 16 pp. Illus. Deals with roofing and structural slate and blackboards.

Structural Slate Co., Pen Argyl, Pa.
4701. *Structural Service Data and Standards.* Takes up properties, uses and specifications of structural products.
4702. *Plumbing Catalog.* Deals with slate for the contractor.

Vendor Slate Co., Inc., Easton, Pa.
4861. *A Book for Architects.* Illus. Catalog 24 pp.
4862. *The Vendor Book of Roofing Slate for Architects.* Illus. 44 pp. Contains information on slate in various uses.

SOUND DEADENING MATERIAL—See Insulation

SQUARES—See Tools

STAIR TREADS

Alberene Stone Co., 153 W. 23d St., New York.
2034. *Illustrated Literature* on stair treads of soapstone.

Norton Co., Worcester, Mass.
4211. *Norton Floors.* Booklet. 24 pp. Describes the several types of *Alundum* floor with reference to their applications.
4212. *Norton Floors.* Monthly House Organ. 4 pp. Illus. Deals with installation of Norton *Alundum* floors.
4213. *Alundum Safety Tile.* Booklet. 38 pp. Presents one type.

Safety Stair Tread Co., Wooster, O.
4491. *Wooster Safe-Groove Stair Treads.* Catalog. Describes these treads and thresholds and security nosing made of white brass, brass and black steel.
4492. *The Wear on Stairs.* Catalog. Deals with methods of repairing worn stairs.
4493. *Stair Nosing, Wooster Security Nosing.* Catalog. Describes method of protecting edges of various flooring materials.

Universal Safety Stair Tread Co., 40 Court St., Boston.
5381. *Universal Safety Tread.* Booklet. Discusses installations on cement, metal or wood steps.

Wright Rubber Products Co., Racine, Wis.
5141. *Illustrated Folder.* Describes their rubber stair tread.

STAIRWAYS, MOVABLE

Bessler Movable Stairway Co., Akron, O., or 103 Park Ave., New York.
2431. *Don't You Wish You Had More Room?* Bulletin. 8 pp. Illus. Explains use of disappearing stairway to attic.

Farley & Loetscher Mfg. Co., Dubuque, Ia.
5201. *Presto Sliding Stairs.* Descriptive literature. Includes prices.

STANDARD BUILDINGS—See Building Construction

STEAMSHIP LINES

Furness Bermuda Line, 34 Whitehall St., New York.
5411. *Circulars.* Illustrated. Take up various details concerning passage, etc., to Bermuda.

STEEL JOISTS—See Joists

STORE FRONTS

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Kawneer Co., 225 Front St., Niles, Mich.
3596. *Contractors' Design Book.* 128 pp. Illus. Presents selected list of store front designs.
3597. *Details Kawneer Solid Copper Store Front Construction.* Catalog L, 1925 edition. 32 pp. Illus. Comprises a treatise on installation of Kawneer solid copper store front construction. Includes sectional and detail views of various members.

Zouri Drawn Metals Co., 1608 East End Ave., Chicago Heights, Ill.
5151. *Getting People In.* Booklet. Illus. Gives plans and diagrams. Shows methods of arranging window display space.
5152. *Zouri Store Fronts.* Booklet. Illus. 31 pp. Shows various types of store fronts. Includes detail drawings.

STOVES AND RANGES—See Ranges, Heating Equipment

STUCCO—See also Cement

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2463. *Bishopric for All Time and Clime.* Booklet. Illus. 44 pp.
2461. *Bishopric Lunfast Finish.* Folder. Illus.
2467. *Old Colony.* Booklet. Describes this stucco.

Muller, Franklyn R., Inc., Waukegan, Ill.
4053. *Asbestone.* 16 pp. Illus. Shows details and pictures of installation of *Asbestone* magnesite stucco.
4054. *Instructions for applying Asbestone stucco.* 8 pp. Illus.

Lehigh Portland Cement Co., 30 E. 42nd St., New York.
3771. *Build the Castle of Your Dreams.* 32 pp. Deals with concrete home construction.
3772. *Permanent Satisfaction in Your Building.* Illus. Book. 48 pp. Treats of fire-safe farm construction.
3773. *The Lehigh Magazine.* New House Monthly.

Master Builders Co., Cleveland, O.
5321. *Booklet.* Describes *Mastertex,* their water-proofing paint for stucco, concrete, etc.

Portland Cement Assn., 111 W. Washington St., Chicago.
4353. *Portland Cement Stucco.* Bulletin. Illus. Contains data on materials, proportion, etc., and discusses approved practices.

Ritestone Prod. Corp., Westchester Ave. and Bronx River, New York.
4442. *Ritestone Stucco.* Catalog. Illus. Explains application. Gives typical example of *Ritestone* stuccoed homes.

Rocbond Co., Van Wert, O.
4461. *Better Homes.* Illus. Booklet. Describes properties of Rocbond Stucco for exterior surfaces.
4462. *Homey Homes.* Illus. Booklet. 20 pp. Shows houses of different kinds in which Rocbond Stucco has been used.

United States Gypsum Co., 205 W. Monroe St., Chicago.
48115. *Oriental Stucco Handbook, OS3.* Illus. in color and sepia.
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.

STUCCO AND PLASTER BASES

Armstrong Cork & Insulation Co., 197 24th St., Pittsburgh.
5531. *Armstrong Corkboard.* Bulletins. Illus. Material includes structural details and method of laying as a plaster base.

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2468. *Bishopric for All Time and Clime.* Catalog. Illus. 42 pp. Describes use of their stucco and plaster base and sheathing.

Bostwick Steel Lath Co., Niles, O.
2481. *Bostwick Economy.* Literature on Bostwick Metal Laths.

Celotex Company, 111 W. Washington St., Chicago.
2661. *Your Home.* Catalog. Gives information concerning *Celotex,* and deals with homes. Price, 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.

Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

Flaxlinum Insulating Co., St. Paul, Minn.
3083. *Standard Specifications.* File 19G. Illus. Contains specifications for insulating with Flax-li-num Keyboard.

General Fireproofing Co., Youngstown, O.
3229. *Herringbone Rigid Metal Lath.* Catalog. 48 pp. Illus.
32211. *Trussit.* Booklet. 16 pp. Illus. Also folder. 16 pp. Illus. Describes reinforcement for partitions and curtain walls.
32212. *GF Diamond Rib Metal Lath.* Booklet. 8 pp. Illus.

Milwaukee Corrugating Co., Milwaukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.

New Jersey Wire Cloth Co., Trenton, N. J.
4142. *Roebling Wire Lath.* Catalog. 30 pp. Illus. Deals with product and its application as a plaster base.

NorthWestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4201. *NorthWestern.* General Catalog. 16 pp. Illus. Covers complete line of *NorthWestern* products including *Kno-Burn* metal lath, *Longspan Plasta-Saver, Nemco* channels.
4202. *Home Building.* Booklet. 32 pp. Illus. Brings out details of home construction and interior finish, suggests built-in conveniences, means of preventing plaster cracks, etc.
4204. *Better Plastering.* Booklet. 12 pp. Illus. Deals with interior plastering. Shows plates of several different types.

Clinton Leadership—

True Uniformity

SUPPOSE it were decided that a wing must be added to a building you completed a month ago. Could you be confident that the new shipment of mortar color would match the original shade, exactly?

You could—if the mortar color were Clinton. For Clinton Mortar Colors are, day in and day out, absolutely uniform, *always* dependable.

Clinton Mortar Colors, for thirty-eight years the leaders, are a convincing example of all that is meant by true uniformity in mortar colors.

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Alberene Laundry Tubs are available in a complete range of sizes.

No builder ever lost anything by furnishing building equipment that was depreciation-proof. Nothing hurts an owner like paying up-keep costs on a house.

Alberene Stone Laundry Tubs, made of Nature's age-old soapstone, are as permanent as the hills from which they come. Their first cost is their last cost. And they have the qualities which good housewives seek—a smooth, easily cleaned surface that will not chip, crack or flake off—they do not leak or absorb moisture or retain odors. And their color is a pleasing light gray, as serviceable as it looks.

Write for the Catalog Sheets—and the name of the dealer near you who stocks the Alberene Stone line.

Alberene Stone Company
153 W. 23d Street, New York

BOSTON 37 Stillings Street · Newark Philadelphia · Pittsburgh · CHICAGO 1700 Elston Avenue

ALBERENE STONE

A NATURAL SOAPSTONE OF SUPERIOR QUALITY

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Selected List of Manufacturers' Literature

(Continued from page 164)

Sykes Metal Lath Co., Niles, O.
4731. *Metal Lath for All Purposes.* Illus. Booklet. 20 pp. Contains information pertaining to their metal lath
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with metal lath and steel building specialties, with specifications and details.
Truscon Steel Co., Youngstown, O.
4799. *Hy-Rib and Metal Lath.* Catalog. Illus. 64 pp. Gives properties of laths, specifications, special uses and views.
United States Gypsum Co., 205 W. Monroe St., Chicago.
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.
Wheeling Corrugating Co., Wheeling, W. Va.
5032. Descriptive literature.
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes specifications for using wire lath.

SURVEYORS' INSTRUMENTS—See Drafting and Surveying

SUSPENDED CEILING—See Ceilings, Metal

TABLES—See Built-In Features

TAMPERS, HAND AND POWER—See Cement Tools

TAPES, MEASURING—See Drafting and Surveying

TELEPHONES—See also Electrical Equipment
Western Electric Co., New York.
5001. *Inter-Phones Systems.* Descriptive literature.

THERMOSTATS—See Heating Equipment

TILE MANUFACTURE
Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery, giving facts and figures.

TILE ROOFING—See Roofing Materials

TILE, STEEL
General Fireproofing Co., Youngstown, O.
32215. *GF Steel Tile.* Catalog. 32 pp. Illus. Contains description and specifications. Also folder. 12 pp. Illus.
Milwaukee Corrugating Co., Milwukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.

TIME BOOKS
Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line of *Aloe* levels, transits and drafting material.

TOILET PARTITIONS—See Partitions

TOOLS
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2344. *Hammers.* Bulletin. Illus.
Combination Blow Torch Mfg. Co., 2805 W. Van Buren St., Chicago.
5591. *Literature.* Describes combination blow torch soldering and branding iron.
Everhot Manufacturing Co., Maywood, Ill.
3033. *Everhot Soldering Irons.* Descriptive literature.
3034. *Everhot Hammers.* Descriptive literature.
3036. *Everhot Shovels.* Descriptive literature.
Koehring Co., 31st and Concordia Sts., Milwaukee, Wis.
3712. *Koehring Booklet.* Lists complete line of products.
Mack Tool Co., Inc., W. Commercial St., East Rochester, N. Y.
3881. *Catalog and Price List.* 20 pp. Illus. Contains complete line of *D. R. Burton* planes, gouges, hatchets, etc.
Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.
4171. *General Catalog.* No. 10. Illus. Presents complete line of hardware specialties and carpenters' tools.
Progressive Mfg. Co., Torrington, Conn.
4361. *Forstner Bits.* Booklet. Illus. Contains specifications, prices, and directions for use.
Sargent & Co., New Haven, Conn.
4523. *Sargent Standard Steel Squares.* Booklet. 32 pp. Illus. Contains specifications and information.
4524. *Sargent Planes.* Catalog. 64 pp. Illus. Includes specifications and prices on complete line of planes.
Swan Co., James, Seymour, Conn.
4711. *Catalog.* 104 pp. Describes *Premium Mechanic's Tools.*
4712. *Booklet.* Illus. 32 pp. Lists and briefly describes tools.
Star Expansion Bolt Co., 147 Cedar St., New York.
5331. *Literature.* Describes *Dryvins,* their expansion shield.
White Co., L. & I. J., Buffalo, N. Y.
5061. *Catalog* 19A. Describes carpenters' tools.
5062. *Catalog* 20B. Describes coopers' tools.
5063. *Several Folders.* Deal with high speed knives.

TOOLS, AIR
Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.
2791. *Berg Electric Air Cushion Hammer.* 6 pp. Illus. Deals with concrete surfacing and finishing apparatus.

TOOLS, EDGE
Atkins & Co., E. C., Indianapolis, Ind.
2301. *Saws, Saw Tools and Machine Knives.* Catalog. 272 pp. Illus. Covers complete line of Atkins saws, saw files, knives.
Everhot Manufacturing Co., Maywood, Ill.
3035. *Everhot Hatchets.* Descriptive literature.
Fox Supply Co., Brooklyn, Wis.
3164. *Scraping Knives.* Descriptive literature. Describes floor scraping knives, furnishing tools, and hand scrapers.
Mack Tool Co., Inc., W. Commercial St., East Rochester, N. Y.
3881. *Catalog and Price List.* 20 pp. Illus. Contains complete line of D. R. Barton planes, gouges, hatchets, etc.
Swan Co., James, Seymour, Conn.
4711. *Catalog.* 104 pp. Describes *Premium Mechanic's Tools.*
4712. *Booklet.* Illus. 32 pp. Lists and briefly describes tools.
White Co., L. & I. J., Buffalo, N. Y.
5061. *Catalog* 19A. Describes carpenters' tools.
5062. *Catalog* 20B. Describes coopers' tools.
5063. *Several Folders.* Deal with high speed knives.

TOOLS, MARKING—See Marking Devices

TRAPS—Steam and Radiator
Johns-Manville, Inc., 292 Madison Ave., New York.
35516. *Steam Traps.* Catalog. 8 pp. Illus. Includes specifications.

TRANSITS—See Drafting and Surveying

TREADS, STAIR—See Stair Treads

TRIANGLES—See Drafting Materials

TRUCKS—MOTOR
Ford Motor Co., Detroit, Mich.
3121. *Power & Haulage.* Monthly Magazine. Contains information on *Fordson* tractor and *Ford* truck.
3122. *The Fordson.* Magazine. Includes occasional stories on trucks on the farm.
General Motors Truck Co., Pontiac, Mich.
3231. *G. M. C. Trucks 1 to 15 tons Capacity.* Catalog. 48 pp. Illus. Covers complete line.

TRUCKS, MOTOR—SUPPLIES
Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4287. *Ball & Ball Carburetor.* 8 pp. Illus. Shows details of Model SV-26.
4288. *Lubricating Devices.* 2 folders. Describe priming caps.
Warford Corp., 44 Whitehall St., New York.
4911. *Folder.* Describes and illustrates their auxiliary transmission for Ford Trucks.
4912. *Warford Selection Type Auxiliary Transmission for Ford Trucks and Pleasure Cars.* Folder.

TRUSSES—See Roof Trusses

VALVES—See also Plumbing Equipment
Crane Co., 836 S. Michigan Ave., Chicago.
2844. *Steam Pocket Catalog.* No. 50. 775 pp. Illus. Contains complete description of Crane line.
Johnson Plumbing Supply Co., 3641-43 So. Halsted St., Chicago.
3571. *Johnson Catalog.* Illus. Covers entire line of plumbing and bathroom equipment, boilers, valves, and radiators.

VAULT LIGHTS
American 3 Way-Luxfer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2207. *Daylight.* 16-pp. 3 Way-Luxifer armored sidewalk lights.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

VENEER AND VENEERING
American Plywood Corp., New London, Wis.
2151. *Plywood Stock List.* Concerns panels for built-in work.
Wheeler, Osgood Co., Tacoma, Wash.
5023. *Leaflet.* Describes *Laminex* panels. Explains waterproof properties.
5021. *Laminex Book.* For architects and the building trade.

VENTILATION AND VENTILATORS
Globe Ventilator Co., Dept. L, Troy, N. Y.
3261. *Globe Ventilator* and *Globe Chimney Cap.* Provide specifications on contract work.
Ilg Electric Ventilating Co., 2850 N. Crawford Ave., Chicago.
5521. *Ventilating Through the Kitchen.* Leaflet. Contains data on use and installation of electric exhaust fans for small homes.
Milwaukee Corrugating Co., Milwaukee, Wis.
4000. *Nu-Air and Milwaukee Stationary Ventilators.* 16 pp. Illus.
Washburne & Co., E. G., 207 Fulton St., New York.
4932. *Descriptive Price List of Rotary Exhaust Ventilators.*

WALLBOARD
Asbestos Shingle, Slate & Sheathing Co., Ambler, Pa.
2285. *Descriptive Matter.* Illus. Deals with *Linabestos,* and asbestos wall board.
Beaver Products Co., Inc., Buffalo, N. Y.
2403. *Folder.* Illus. Describes uses and methods of handling *Beaver Board.*
United States Gypsum Co., 205 W. Monroe St., Chicago.
48111. *Gyplath.* Catalogue Ga.
48112. *Architects' Specifications for Gyplath.*
48117. *Sheetrock Catalog.* Bulletin WB61.
48118. *Sheetrock Tile Board.* Folder WB61.
Upson Co., Lockport, N. Y.
4851. *Walls & Ceilings of Enduring Charm.* Illus. Booklet. 16 pp. Describes qualities of Upson Board.
4852. *The Snow White Lining.* Illustrated catalog. 16 pp. Describes Upson Fibre Tile used in bathrooms and kitchens.
4853. *4-Page Folder.* Contains description of the Upson Blue Book of working plans and sketches for interior finishing with Upson Board. Blue Book is distributed to lumber dealers for use by builders. Single blue prints, price 25 cents.
4854. *The Upsonizer.* March-April issue. 24 pp. Illus. Deals with the merchandising problems of the builder.

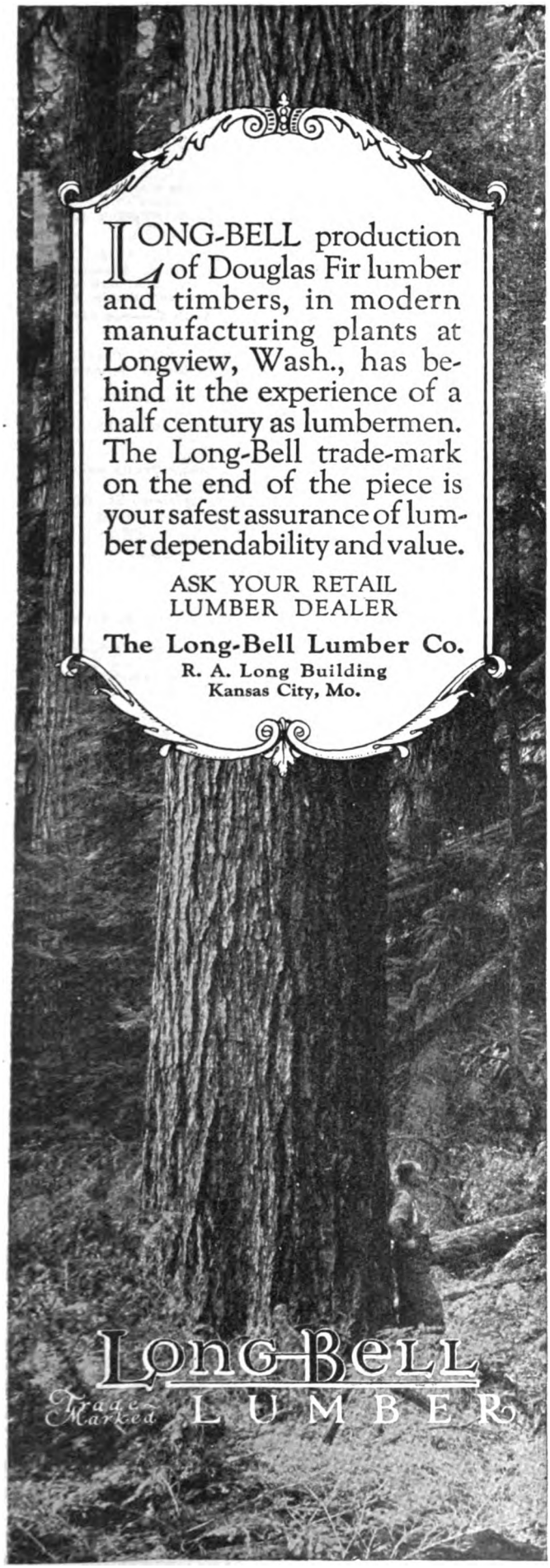
WALL COVERING
Morene Products Co., Inc., 241 W. 28th St., New York.
5371. *Morene, the Wall Finish Distinctive; a Portland Cement Product—Atlas White.* Brochure. Illustrated. Shows examples of *Morene* used for ceiling and mural decorations.
Standard Textile Products Co., 320 Broadway, N. Y.
4631. *Book of Samples in Color.* Shows design and texture of Sanitas, their sanitary cloth wall coverings.

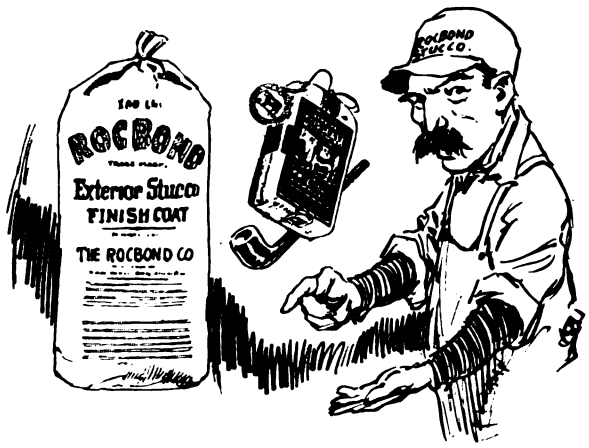
WATER GAUGES—See Plumbing Equipment

WATER HEATER
American Heating & Lighting Co., Morenci, Mich.
2132. *How to Install a Water Heater.* 8 pp. Illus. Deals with cold process gasoline gas heaters.
Crane Co., 836 S. Michigan Ave., Chicago.
2843. *Crane Water Heater.* Booklet. Illus.
Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, and pneumatic waterworks fields.
Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4282. *Noiseless Water Heater.* 4 pp. Illus. Includes specifications.
Richardson & Boynton Co., 260 5th Ave., New York.
5221. *Richardson Hot Water Heater. Describes Galvoxide Water Section* for use in connection with the *Richardson.*
5222. *Your Store.* This and another Booklet, for dealers.
Standard Gas Equipment Corp., 18-22 E. 41st St., New York.
4626. *Vulcan Gas Water Heater.* Booklet. Illus.

WATERPROOFING—See also Dampproofing
Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Points and Insulating Paper.*
Cabot, Samuel, Inc., 141 Milk St., Boston, Mass.
2594. *Cabot's Waterproofing Specialties.* Booklet. 14 pp. Illus. Covers damproofing, clear brick waterproofing, and clear cement waterproofing.
Consumers' Asbestos Corp., 80 Wall St., New York.
2811. *Damp-Proofe.* Descriptive literature. Illustrated. Concerns use of products for cellar work.
Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

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Hagarty Says:

For a good smoke — Ol' Bull Durham. For good stucco—

Ol' ROCBOND.

Only there's no "bull" about ROCBOND construction. Just a simple case of good material mixed and applied according to specifications.

—and the ROCBOND dealer's the watch-dog between the factory and the job.

Got to be if he handles it.

ROCBOND
Exterior Stucco
A Good Half Inch

FOUR PLANTS
Write the one nearest you

The Rocbond Company

Van Wert, Ohio Harrisburg, Pa.
Cedar Rapids, Iowa New York, N. Y.

The Rocbond Co. B.A.
Please send me "Homey Homes" book describing Rocbond Stucco. No obligation is assumed.

Name.....

Address.....

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Selected List of Manufacturers' Literature

(*Continued from page* 166)

General Fireproofing Co., Youngstown, O.
32216. *The Waterproofing Handbook.* Catalog. 72 pp. Illus Covers complete line of GF waterproofing materials.
Johns-Manville, Inc., 292 Madison Ave., New York.
35517. *Aquadom.* Folder. 4 pp. Illus. Explains use.
Master Builders Co., Cleveland, O.
5321. *Booklet.* Describes *Mastertex,* their waterproofing paint for stucco, concrete, etc.
Morene Products Co., Inc., 241 W. 28th St., New York.
5373. *Folder.* Describes *Kemisol,* waterproofing and preservative for stone, brick, concrete and cement surfaces above ground.
Sandusky Cement Co., Cleveland, O.
5181. *Medusa Waterproofing.* Literature. Gives specifications and tables on *Medusa Waterproofing* in powder and paste forms.
Truscon Laboratories, Caniff Ave. and Grand Trunk R. R., Detroit, Mich.
4782. *Science and Practice of Integral Waterproofing.* Illus. 33 pp. Contains specifications for waterproofing mass, concrete, stucco and cement plaster coat.
4783. *Technical Pamphlet No.* 8. Booklet. 28 pp. Discusses concrete waterproofing.

WATER SYSTEMS—See also Plumbing Equipment
Fairbanks, Morse & Co., 900 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets. Directs attention of builders and architects to home water systems.
Flint & Walling Mfg. Co., Kendallville, Ind.
3091. *Running Water Under Pressure.* Catalog No. 115. 48 pp. Illus. Deals with water systems including pumps, tanks, etc.
Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing and heating equipment. 50 cents.
Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, and pneumatic waterworks fields.
Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 57. 414 pp. Illus. Presents complete line of Myers pumps, door hangers, store ladders, etc.

WEATHER STRIPS
Allmetal Weatherstrip Co., 229 West Illinois St., Chicago.
2041. *Circular.* 6 pp. Illus. Describes uses for hotels, residences.
Burrowes Weatherstrip Co., 1930 S. 52nd St., Chicago.
5491. *Do Your Windows Hold Out the Cold?* 4 pp. Illustrated. Deals with heat waste through uninsulated windows.
5492. *Dealer Proposition.* Information on open territories.
Ceco Weatherstrip Co., 1926 So. 52nd St., Chicago.
2851. *Ceco Metal Weatherstrips.* Catalog. Illus. 16 pp. Describes these weatherstrips and their installation.
Chamberlin Metal Weatherstrip Co., Inc., Detroit, Mich.
5551. *Chamberlin Metal Weatherstrip Details.* Catalog. Illustrated. Contains a summary of details pertaining to construction.
Dennis & Co., W. J., 210 W. Lake St., Chicago.
2911. *D. D. C. Spring Bronze Weatherstrip.* Includes sample, description and method of installation.
Federal Metal Weather Strip Co., 1238-50 Fullerton Ave., Chicago, Ill.
3071. *Does it Pay?* Folder. 4 pp. Illus. Concerns the question of using weather strip.
3072. *Window and Door Equipment.* Folder. 4 pp. Illus. Includes detail drawings.
Hoffbauer Co., Inc., 101 Park Ave., New York.
3411. *Metal Weather Strips.* Folder. 4 pp. Illus.
Malia, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes metal weather strips, porch enclosures and rust-proof fly screens.
Victor Parting Bead Co., Dept. B, Reading, Pa.
4871. *How To Install Victor Parting Beads.* Booklet. Illus. with photographs and detail drawings.
4872. *Through the Closed Window.* Booklet. Illus. Discusses weather protection. Illustrates their parting bead.

WEATHER VANES
Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Copper Weather Vanes.* Illus. Catalog. 32 pp. Shows different designs of weather vanes and lightning rods.

WINDOWS, METAL
Bayley Co., Wm., Springfield, O.
2382. *Bayley-Springfield Steel Fire Windows.* Bulletin F21. 4 pp. Illus. Includes discussion of tests made on product.
2383. *Bayley-Springfield Steel Office and Schoolhouse Windows.* Bulletin AA21. 4 pp. Illus. Details and description.
2385. *Bayley-Springfield Steel Windows for Basements.* 4 pp. Illus. Ventilators.
2386. *Bayley-Springfield Projected Ventilators, Steel Windows.* 4 pp. Illus. Details and description.
Crittal Casement Window Co., 10957 Hearns Ave., Detroit, Mich.
2871. *Standard Steel Casements.* Catalog. 2-24. Illus. Includes data and details concerning *Crittal* copper bearing steel casement windows for residences, clubs, etc.
2872. *Cottage Casements.* Pamphlet. Illus. Deals with copper bearing steel window designed for less prominent positions.
Detroit Steel Products Co., 2252 E. Grand Blvd., Detroit, Mich.
2921. *Fenestra Casement Windows.* 20 pp. Illus. Describe steel casement windows with details and specifications.
2922. *Fenestra Basement Windows.* Booklet. 16 pp. Gives description, specifications and details.
2923. *Fenestra Reversible Ventilator Windows.* 20 pp. Illus. Shows design of new model.
2924. *Fenestra Counter-Balanced Windows.* Catalog. 111 pp. Illus.
2925. *Fenestra Industrial Window Walls.* Catalog. 111 pp. Illus.
2926. *Fenestra Steel Windows for Schools.* Booklet, 32 pages, illustrated. Describes types and sizes of school windows.
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2956. *Donley Basement Windows.* 16 pp. Illus. Gives details.
Hope & Sons, Ltd., Henry, 103 Park Ave., New York.
3431. *Hope's Casements.* Circular. Illus. Covers line of standard size and type steel casements.
Lupton's Sons Co., David, Philadelphia, Pa.
3845. *Industrial Windows.* Catalog No. 12-A. Illustrated. Deals with steel windows for industrial use.
3846. *Residence Windows.* Catalog C-122. Illustrated. Takes up various types of Lupton steel windows for homes.
Truscon Steel Co., Youngstown, O.
4795. *Truscon Steel Sash.* Illus. 80 pp. Handbook for detailers and specification writers.
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog. Contains designing data, tables and views of Stock Sash installations.

WINDOWS—WOOD
Andersen Lumber Co., Bayport, Minn.
2241. *Andersen Window Frames.* 24 pp. Illus. General catalog of White Pine Frames.
2242. *Better Frames for Your Money.* 6 pp. Illus
California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of information Sheets on California White and Sugar Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.
Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.
Wheeler, Osgood Co., Tacoma, Wash.
5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of *Laminex* and *Woco* doors and includes description of *Woco* window sash.

WINDOW SHADE EQUIPMENT—See Shades and Shade Rollers

WIRE, IRON, BRASS AND BRONZE PRODUCTS—See also Ornamental Iron and Brass
Dow Co., 1025-51 Franklin St., Louisville, Ky.
2861. *Iron and Wire Work.* Folder G. 14 pp. Illus. Covers complete line of iron and wire products. Furnish estimates.
Meyers Mfg. Co., Fred J., Hamilton, O.
3981. *General Catalog.* 110 pp. Illus. Covers entire line of wire, iron, Bronze and brass products.
3982. *Folder.* 4 pp. Illus. Describes new type of grille for the house screen door.
New Jersey Wire Cloth Co., Trenton, N. J.
4143. *Wire Work.* Descriptive literature. Illus. Treats upon wire lath, screens and kindred wire products.
Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4203. *Practical Machine Guards.* Catalog. 36 pp. Illus. Shows application of *Econo* mesh for this duty.

WIRE CLOTH—See Screens

WIRE GLASS—See Glass

WOODWORK—See Lumber and Woodwork

WOODWORKING MACHINERY
American Saw Mill Machinery Co., 61 Main St., Hackettstown, N. J.
2172. *General Catalog No.* 22 *and Contractors' Bulletin No.* 77.
2173. *General Catalog No.* 23. Illus. 208 pp.
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2341. *Electric Portable Sander.* Bulletin BE. Illus.
Barnes Co., W. F. & John, Rockford, Ill.
2351. *Barnes Catalog.* 38 pp. Illus. Covers line of saws, etc.
2352. *Barnes Motor Driven and Foot Power Woodworking Machines.* Booklet. 14 pp. Illus. Takes up various types.
Black Bros. Co., Inc., Mendato, Ill.
2472. *Black Veneer and Glue Room Equipment.* Catalog No. 11. 16 pp. Illus. Covers the line of clamps, presses, mortising machinery and sandpaperers.
Buffalo Forge Co., 476 Broadway, Buffalo, N. Y.
2541. Catalog, 850-54. Describes the *Buffalo* Woodworker.
Colgan Machinery & Supply Co., 16 E. Broad St., Columbus, O.
2741. *Would You Bore Holes with a Hot Iron?* Folder. 4 pp. Illus. Describes *Champion* hand power and electric power mortisers.
Crescent Machine Co., 206 Main St., Leetonia, O.
2861. *Crescent Saw Tables.* Catalog. 20 pp. Illus. Covers complete line of *Crescent* saw tables. Includes four additions.
DeWalt Products Co., Leola, Pa.
2941. *DeWalt Woodworker.* Folder. 4 pp. Illus. Furnishes information regarding *DeWalt* universal woodworker.
Gallmeyer & Livingston Co., Grand Rapids, Mich.
3181. *Union Woodworking Machines.* Booklet. 16 pp. Illus.
3182. *Woodworking Machinery.* Booklet. 14 pp. Illus., Describes several types of routers, boring machines, rawers, etc.
Heston & Anderson, 106 S. 16th St., Fairfield, Iowa.
5501. *H & A Portable Electric Machines.* Circular. Illustrated. Interests the Builder in H & A line of power saws.
Hutchinson Mfg. Co., Norristown, Pa.
3451. *Don't Let Dollars Slip Through Your Fingers.* Folder. 6 pp. Illus. Describes *Speed Marvel Worker.*
3452. *Bench Jointers.* Folder. 4 pp. Illus. Presents Speed Marvel 4" and 6" jointers.
3453. *Beaver.* Folder. 4 pp. Illus. Describes woodworker and gives specifications.
Kennedy, Ralph, 117 N. 7th St., Philadelphia, Pa.
3621. *The Kennedy Utility Saw* Descriptive literature. Describes product for general work.
Kornau Machine Co., Gulow and Vendalia Sts., Cincinnati, O.
3731. *Upright Hollow Chisel Mortiser.* Data and description.
Markwell Mfg. Co., 176 Franklin St., New York.
3941. *Markwell Catalog.* 33 pp. Illus. Describes various appliances for the sash and screen maker.
Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.
3961. *Master Woodworker.* 18 pp. Describes model No. 7.
Parks Ball Bearing Machine Co., 1540-46 Knowlton St., Cincinnati, O.
4261. *Parks Woodworking Machines.* Catalog E. 42 pp. Illus. Includes details and specifications of complete line.
4262. *Cabinet Shop Special.* Bulletin. No. 7. 6 pp. Illus. Describes *Parks* combination woodworking saw.
4263. *Contractors' Special Swing Cut-off Saw.* Bulletin. 4 pp.
4264. *Planing Mill Special.* Bulletin. C-85. 6 pp. Illus. Includes description, details and prices.
Sheldon Mfg. Co., Inc., Box 25, Neahawka, Neb.
4563. *Four Leaflets and Folders.* Illus. Describe their *Model A* portable gas engine, saw rig and *Model B* portable electric.
Sidney Machine Tool Co., Sidney, O.
4581. *Famous Woodworking Machinery.* Catalog, pocket size, 100 pp. Illus. Gives information with specifications.
4582. *Booklet.* 12 pp. Illus. Gives additional information.
Wallace & Co., J. D., 134-158 S. California Ave., Chicago.
4891. *Wallace Bench Machines.* Illus. Loose Leaf Catalog, 22 pp.
4892. *Wallace Machines for Working Wood.* Illus. Catalog.
4893. *The Woodworking Pictorial.* A Bulletin of suggestions.

ZINC—See Leaders, Flashings and Gutters; also Roofing Materials

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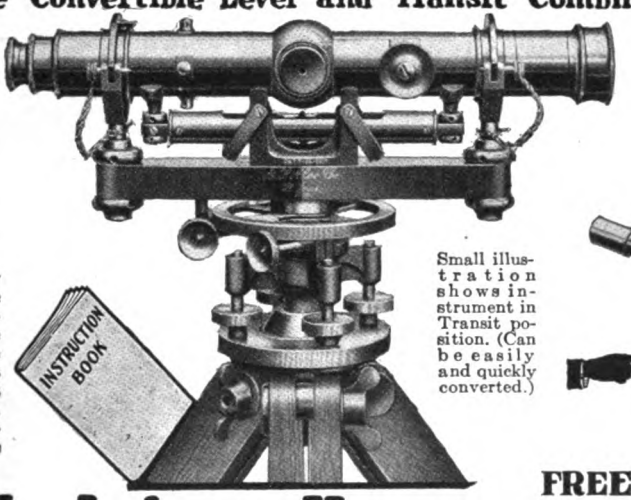
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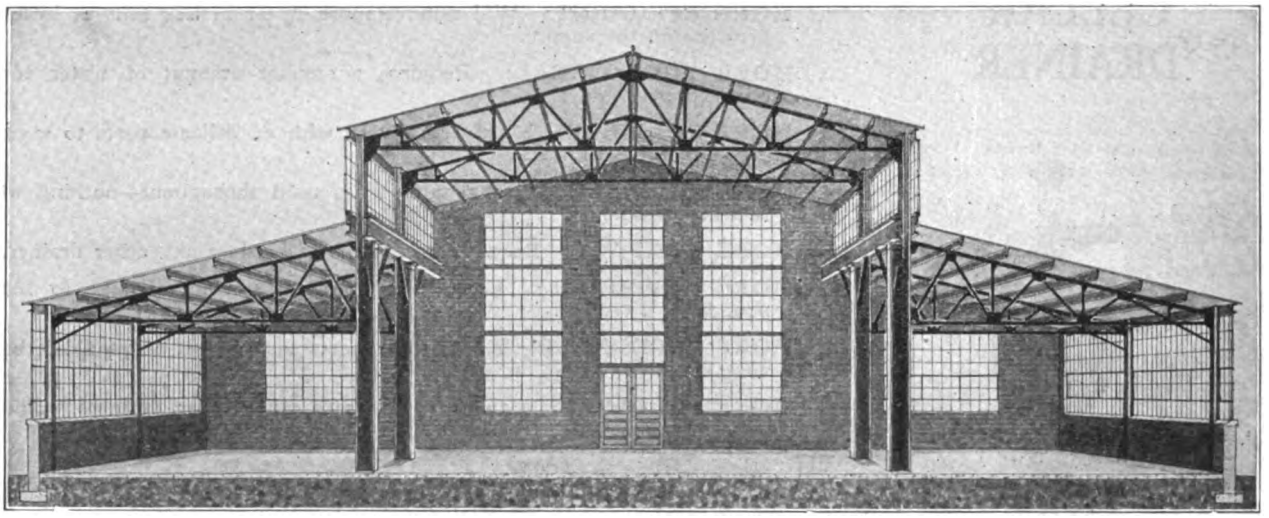
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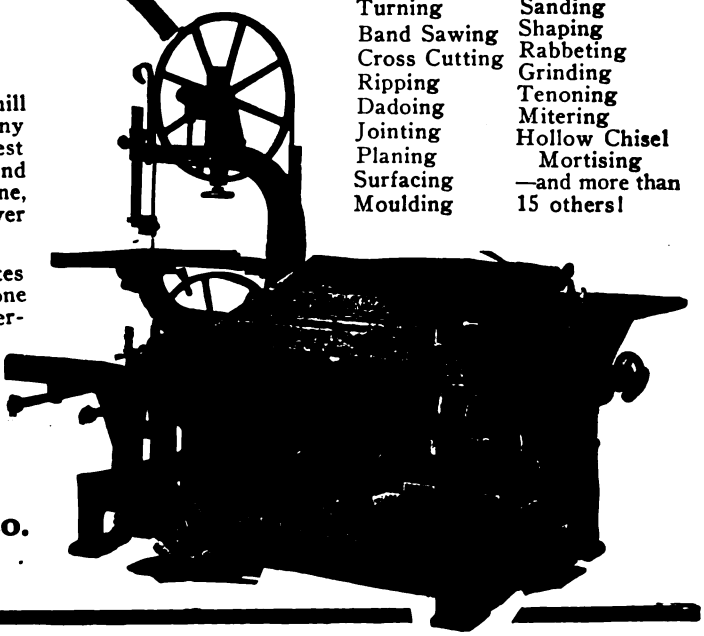
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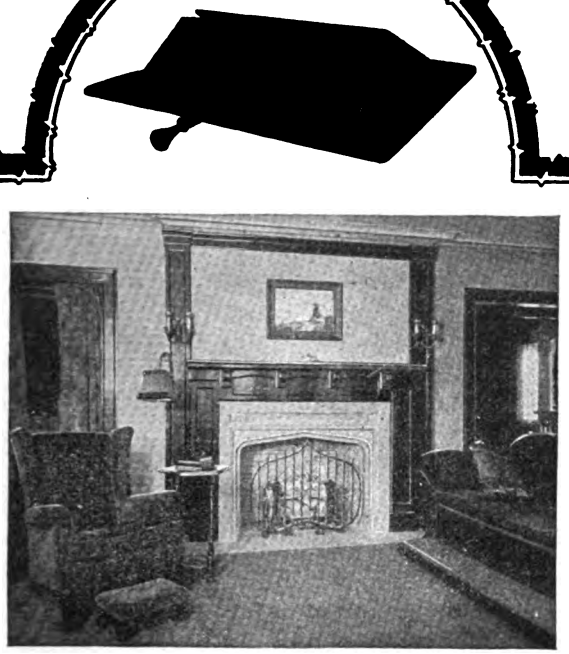
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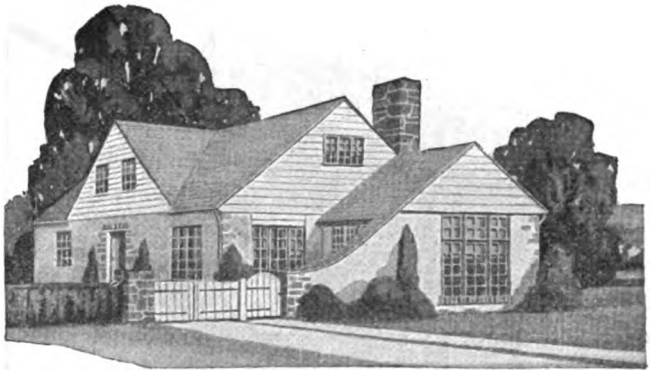
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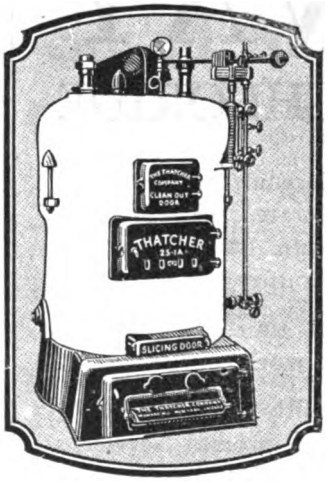
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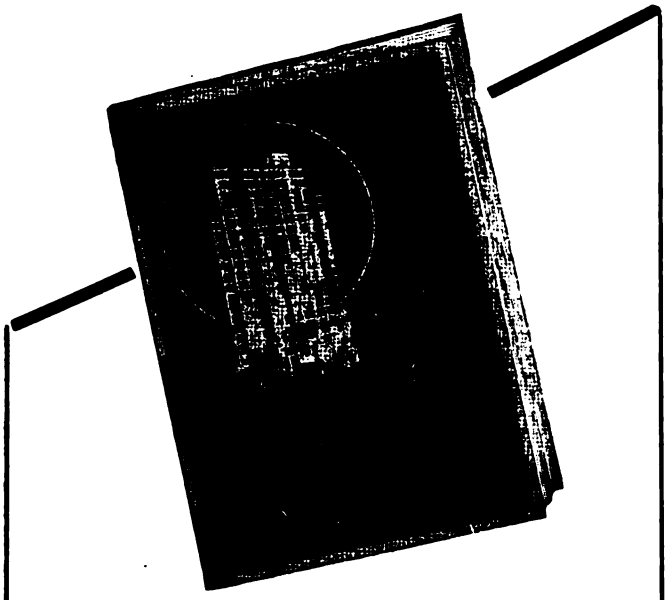
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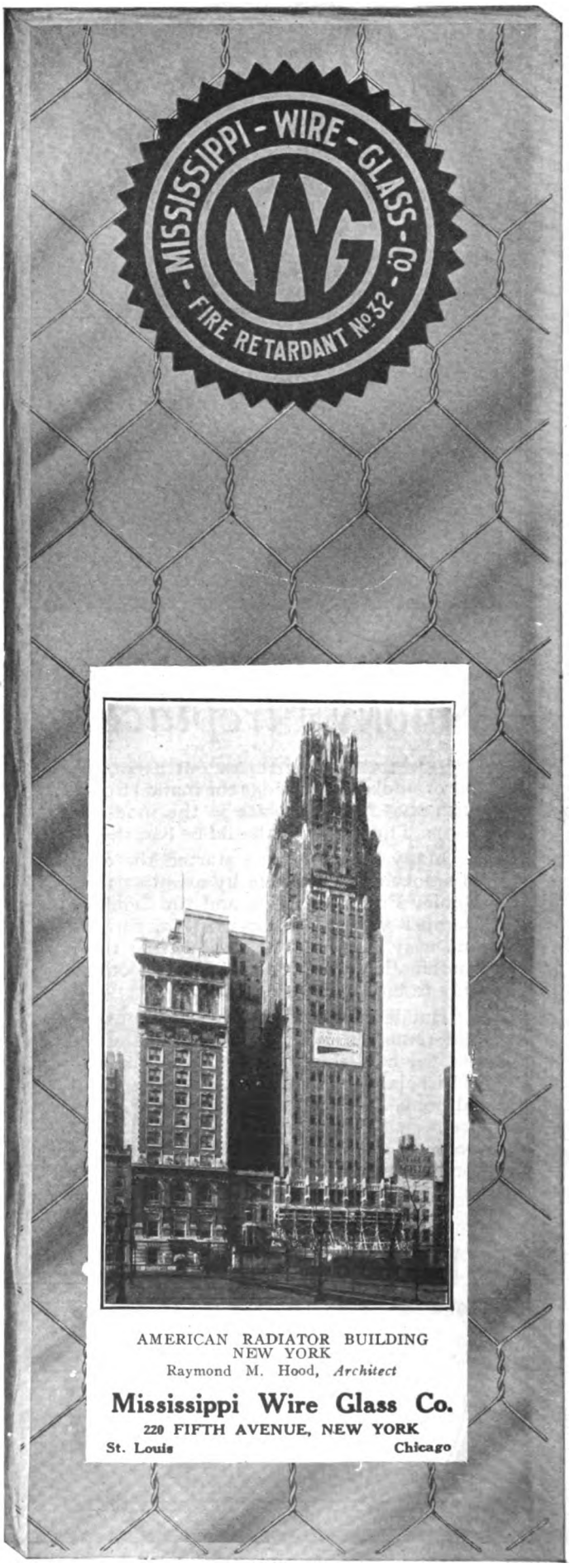
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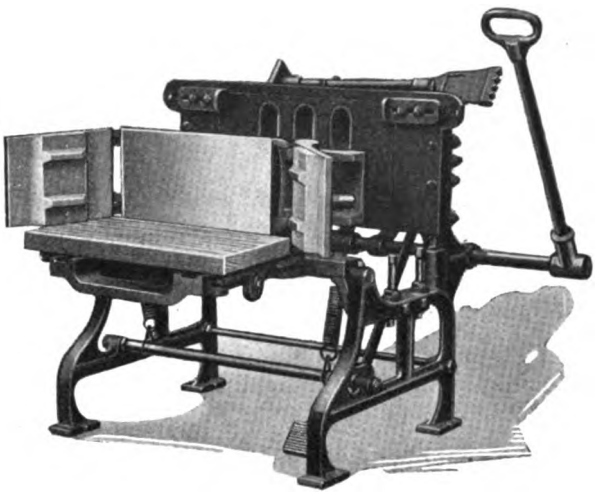
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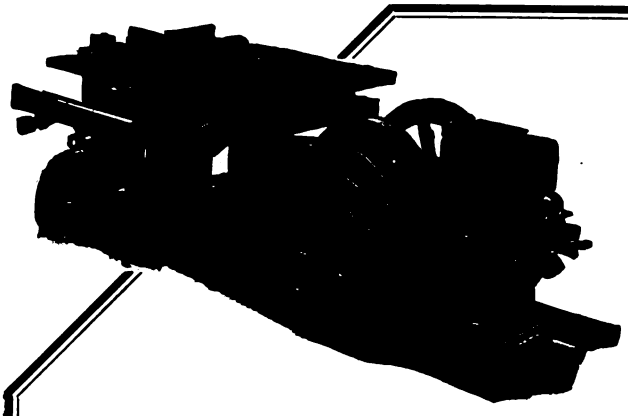
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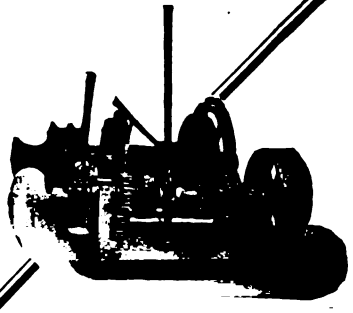
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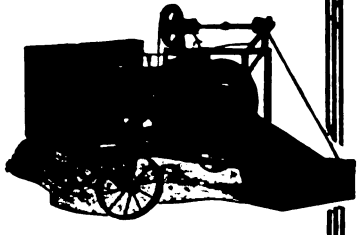


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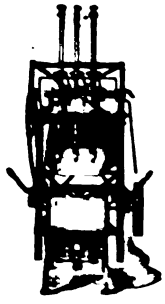
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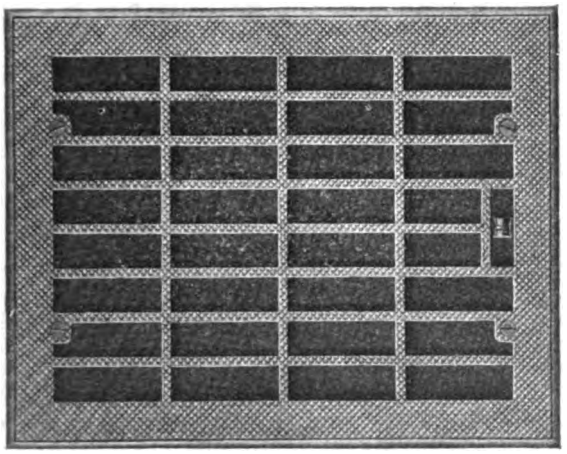


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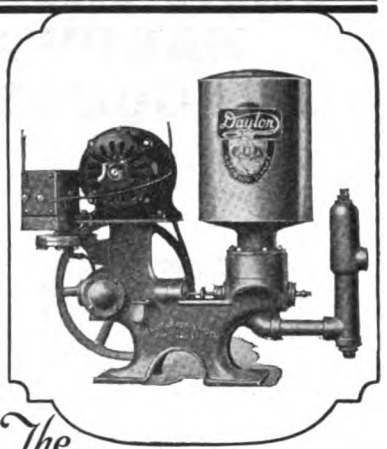
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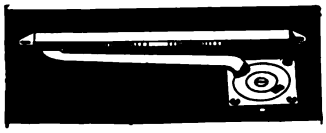
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Open the window without opening the screen. A short easy swing of handle *inside* swings Casement to position: locks automatically.

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No. 6—All solid brass, all hardware finishes.

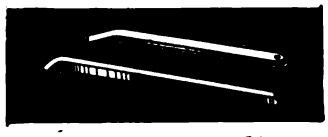
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Flush Type Operators

The operators are particularly valuable for use with metal frame screens, as operators set flush with sill and it is not necessary to cut the screens to install the operators. Practically invisible after installation.

No. 24-B—All cast bronze and brass. Fixed rights and lefts. All finishes.

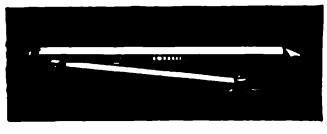


Operator Handles

Handles for Win-Dor Operators are usually provided in the amount of one handle to each room in which operators are used. When not in use handles may be hung on window frame behind drapes.

No. 71—For operators Nos. 7, 6 and 5.

No 24A—For operator No. 24-B.



Automatic Lock Stays

Very handy, easily operated stay. Locks automatically when finger-lift is released. For use without screens. Sash is released, swung and locked in position with movement of one hand.

No. 91—Steel and iron, with parkerized (rust resisting) dull black finish or galvanized.

No. 92—All solid brass. All finishes.

First grade casement operators of the famous Win-Dor design retailing at

$2

and a wonderful Stay at 75c

Here is the New Standard line of Win-Dor casement hardware — the labor of ten years' research and testing—the achievement of a decade.

A line of casement fixtures of high quality, handsome appearance, and practical convenience unmatched—and yet selling at a price within the reach of builders of the most modest cottages. All are of Win-Dor standard, operating on the patented Win-Dor principles for which builders have hitherto willingly paid extra. Remember that! But now, by simplification and standardization, Win-Dor fixtures cost less than ordinary hardware.

At last you can give your people utter convenience in casements at the price you want to pay for hardware. Liberal discounts for quantity orders. Get copies of our booklet listed below to distribute to your customers. It pays. By all means use the coupon. Act quickly, as popular demand may tax later supply.

Casement Hardware Co.
250 Pelouze Bldg.
Chicago

"Casement Hardware Headquarters for Twenty Years"

CASEMENT HARDWARE CO.
250 Pelouze Bldg., Chicago, Illinois
I am interested in the New Standard

Win-Dor

as indicated by check mark below.

☐ Please send complete information on the New Standard line of Win-Dor Casement Hardware.

☐ Please send a copy of your book, "Things You Ought to Know About Casement Windows." 10c in stamps enclosed.

*Name*_____

*Address*_____



SORENO HOTEL
St. Petersburg, Florida

Construction Loans *Plus* Helpful Service

At all times we welcome applications for construction loans in amounts from $250,000 to $1,000,000 or more.

In addition to financing, we place at the disposal of builders the services of our Engineering Department, composed of experienced men, whose suggestions often result in definite, money-making suggestions for the property owner.

A letter outlining your plans and requirements will bring a prompt reply, with a booklet on the Miller Plan of financing which contains some interesting letters from architects and builders who have dealt with us.

G. L. MILLER & CO.
INCORPORATED

Northern Headquarters: 30 E. 42nd St., New York

Southern Headquarters: Hurt Building, Atlanta, Ga.

OWNER · ARCHITECT · FINANCIER
SYMBOL OF SAFETY
MILLER BONDS

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"Fine Woodwork for Over Quarter of a Century"

AT A SAVING TO THE CONTRACTOR AND BUILDER

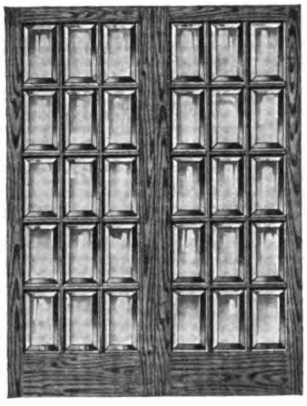
No matter what your requirements are, we can take care of you, and save you money. Whether it is one Door, the materials for a Bungalow, Complete Millwork for a large Apartment, all the woodwork for a Church, High School, Hotel or any Public Building, we are equipped to execute your contract.

The three items shown in this advertisement have been selected at random from our supplement. There is nothing startling about them. They're just regular values with us. Get away from the beaten path—try us on your next job. Your dollar has more buying power when you deal with us.



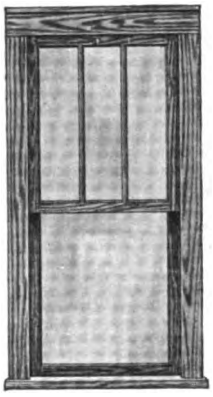
This Two Panel White Pine Door with beautifully figured Rotary Cut Panels, complete with Clear Yellow Pine Inside Door Jambs, Door Stops and Two Sides of Clear Yellow Pine Back Band Door Trim. All Smoothly Machined and Nicely Sanded in complete outfits at Attractive prices.
Write for folder.

Door Outfit No. B. A. 10



Beautiful French Doors made of Clear White Pine Glazed with 24 oz. Crystal Sheet Glass or Bevel Plate Glass. Glass set with wood stops and including "T" Astragal at attractive prices.
Write for folder.

French Doors No. B. A. 11



White Pine knock down Window Frames with Clear Yellow Pine Pulley Stiles including Pulleys and Pockets cut in complete outfits with Clear White Pine Windows Glazed Crystal Sheet Glass, and Clear Yellow Pine Back Band Trim with Stops, nicely sanded at attractive prices.
Write for folder.

Window Outfit No. B. A. 12

AGENTS WANTED to represent us in towns of 25,000 or over. We desire agents who know Millwork to sell our goods to Builders and Contractors. They must understand sizes, be able to measure wall openings, and list orders correctly. If qualified, write us fully about your experience, and state if you can give full or part time.

Every Contractor should have these Books

- ☐ Contractor's Design Book and Complete Catalog No. B. A. 44....$0.50
- ☐ Contractor's Wholesale Price Supplement No. B. A. 40.....Free
- ☐ Book of 69 Plans of Practical Homes in Colors No. B. A. 69.....$0.50
- ☐ Contractor's Wholesale Lumber Price List No. B. A. 100.....Free
- ☐ Hardwood Flooring Challenge Sale Price List No. B. A. 101.....Free
- ☐ "Something New Under the Sun" Folder No. B. A. 102.. .....Free

IMPORTANT! The money you send for our Design Books is refunded to you after we receive your first order for Millwork amounting to $10.00 or more. The charge barely covers the cost of the book.

Manufacturers Since 1897

Chicago & Riverdale Lumber Co.

Riverdale
Chicago
Illinois

If You Use Saws You Need the Foley Automatic Saw Filer

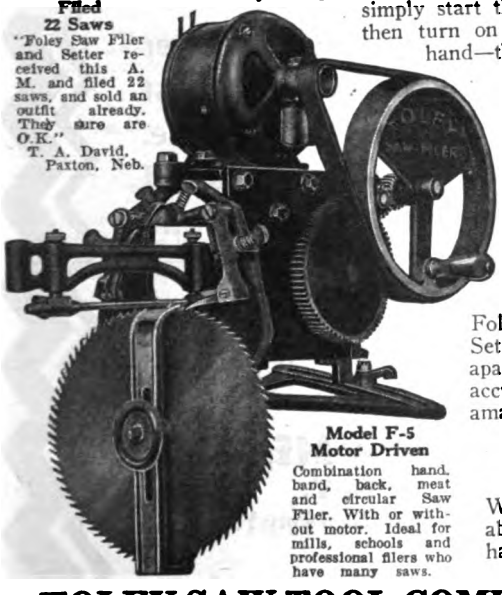
Beats Hand Filing
"I am getting wonderful results from the Foley Filer and Setter and the more I file the better I get. They sure beat filing by hand."
Tyler M. Satterly,
61, Meadowbrook,
N. Y.

Filed 22 Saws
"Foley Saw Filer and Setter received this A. M. and filed 22 saws, and sold an outfit already. They sure are O.K."
T. A. David,
Paxton, Neb.

Anyone who uses hand, band, back, meat or circular saws regularly cannot afford to be without a Foley Automatic Saw Filer. Five minutes is all it takes to sharpen a carpenter's saw with this outfit. Every tooth is perfect—variation is less than 1/1000th of an inch.

Hand or Motor Driven

There's a Foley Saw Filer that is just right for the kind of saws and the amount of work you have. They range in price to fit your pocketbook. You simply start the file on the first tooth, then turn on the motor or crank by hand—the Foley Filer does the rest *automatically*. Saves time, money, saws and eyes.



Model F-5 Motor Driven
Combination hand, band, back, meat and circular Saw Filer. With or without motor. Ideal for mills, schools and professional filers who have many saws.

Foley Rotary Saw Set

It takes one minute to set a saw with the Foley Rotary Saw Set. Rolls the teeth apart with a speed and accuracy that will amaze you.

Send for Free Circular

Write for full information about these wonderful and handy Foley Saw Tools.

Model F-3 Hand Driven
Foley Hand Drive Outfit; ideal for small contractors, builders and professional filers. For hand, band, back and meat saws.

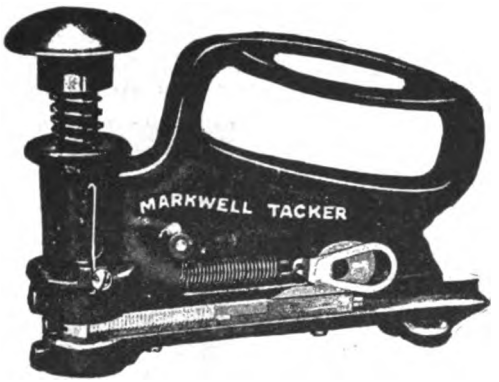


FOLEY SAW TOOL COMPANY, 916 E. Lake St., Minneapolis, Minn.

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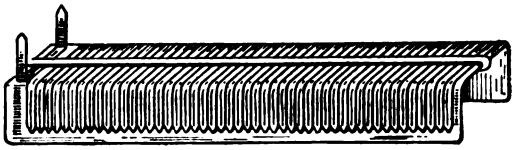
BETTER SCREENS

SCREENS SCREENS



Automatic Screen Tacker

43,000 IN USE IN U. S.



8 Times Faster Than the Hammer and Tack

A slight pressure of the hand drives a broad, flat, double pointed staple into hard or soft wood. Staple straddles five strands of wire. No banging of fingers and no waste. Holds twice as strong as tacks. Screen manufacturers now using the MARKWELL use three staples in place of five tacks.

Staples already cut and assembled on cartridges ready for reloading. No waste—no loose staples. Reloads in 2 seconds. Machine just drives staples. Cutting off of staple not necessary and therefore no dull cutting edges to make machine useless.

Machine guaranteed against defects for one year.

MODEL "C" (For Flat Surface Lumber).....$7.00 MODEL "E" (For Flat and Rabbeted Lumber).....$8.00

Both Models equipped with Replaceable Hardened Steel Claws, which enable the operator to Straighten and Stretch the wire while tacking.

Staples, 15,000 lots, per M.....$0.52 Staples, 60,000 lots, per M.....$0.43 Staples, 250,000 lots, per M.....$0.35
Staples, 30,000 lots, per M..... .48 Staples, 125,000 lots, per M..... .38 Staples, 500,000 lots, per M..... 32½

Million Lots or Over, per Thousand, 31 cents. Pure Copper Staples, 10 cents per Thousand Higher.
PRICES ARE F. O. B., NEW YORK. PRICES F. O. B., SAN FRANCISCO, ARE SLIGHTLY HIGHER.

Send credit references with your order and we will ship on approval for 15 days. If you authorize C. O. D. shipment or send check with order, we guarantee to return full purchase price if the machine does not come up to your best expectations.

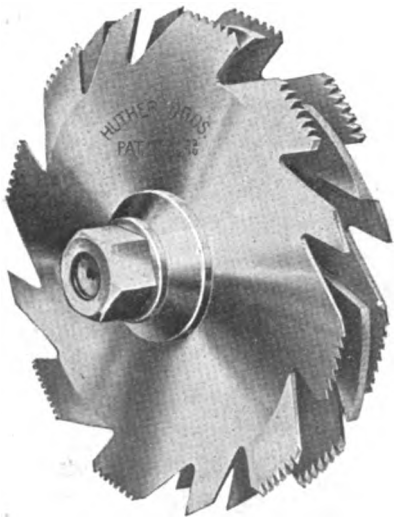
An Interesting Pamphlet, "The Manufacture of Screens for Profit," will be sent on request.

OUR PRODUCTS ARE EXCLUSIVELY
"SCREEN MANUFACTURERS' EQUIPMENT"
COMPLETE CATALOG ON REQUEST
Write for Particulars on Our SCREEN WIRE STRETCHER

A & L MARKWELL MFG. CO. 79 STEUART STREET, SAN FRANCISCO, CALIF.
176 FRANKLIN STREET, NEW YORK, N. Y.

BETTER TIME—BETTER PROFITS

There's more profit in a HUTHER SAW

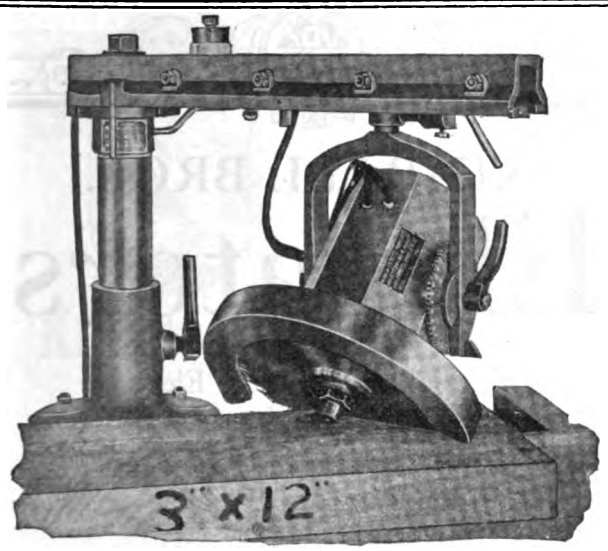


A Huther Dado Head means bigger profits for you as it makes the most intricate cutting and grooving simple. It consists of two outside cutters and enough inside cutters to perform the desired cut. Simple to adjust.

Send for one on approval. It may be returned at our expense if unsatisfactory.

Huther Bros. Saw Mfg. Co.
ROCHESTER, N. Y.
Makers of Better Saws for More Than Fifty Years

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THE DE WALT

The perfected Woodworker that performs virtually any woodworking operation with ease, efficiency and economy.

Three DE WALT Features:

Powerful: **Direct drive eliminates all loss of power through belts or gears. Sizes to cut 1" to 5" stock.**

Practical: **May be changed from cross-cutting to ripping in a few seconds. Cutting tools quickly interchangeable. Operates from an ordinary light circuit.**

Portable: **Weight 245 to 260 pounds. Two men can easily carry it from one job to the next.**

SAMUEL M. SHERMAN Says:

Gentlemen:

While we have been using the De Walt Woodworking Machine for but one year, we have been enabled to note quite a saving in the cost of material which we are able to turn out on this machine.

As we have erected during the past year approximately 150 residences, we were able to bring the machine into use in almost every manner for which it is adaptable and at all times found it satisfying our needs in a speedy and efficient manner.

We rely considerably on the "De Walt," and after the short period in which we have been using same, we would under no consideration be without one in the future.

SAMUEL M. SHERMAN, Contractor.
By Wm. Stottlemyer.

Reading, Pa., Mar. 25, 1925.

STEINWAY & SONS Say:

Gentlemen:

We find the De Walt a useful machine on various small jobs and feel that almost every woodworking plant could use one or more.

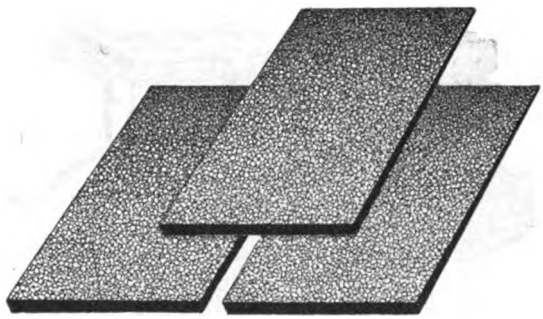
STEINWAY & SON,
P. H. Bilhuber.

Steinway, L. I., N. Y., Mar. 18, 1925.

Write for catalog and prices.

De Walt Products Company

Leola **Penna.**



The Taper Doubles the Wear

The butts of Winthrop Tapered Asphalt Shingles are almost exactly twice as thick as the butts of standard asphalt shingles. This thickness is due to extra coats of everlasting asphalt. Area for area, the laid-to-weather portions of Winthrops are as much heavier as they are thicker than standard shingles.

...the Big Butt Shingle

Winthrop
Tapered Asphalt Shingles

This double thickness and double weight insures double wear and a tight, snug roof, with attractive shadow lines.

Winthrops are proof against rot, rust, cracks and splits. They are fire-resisting. Just try burning one along with some scraps of lumber.

The colors are permanent—non-fading crushed slate anchored in the everlasting asphalt. In solid colors or in a mottled effect, a Winthrop roof is beautiful.

LUMBER DEALERS

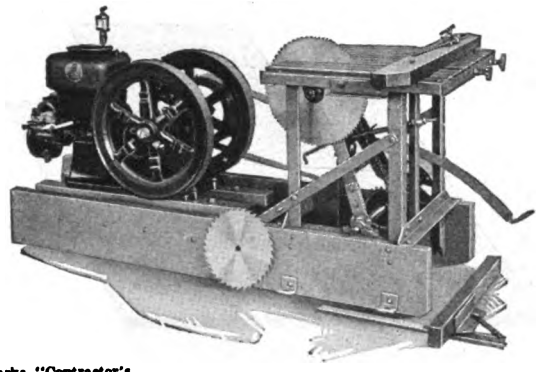
carry Winthrops, but upon request we will send you a sample shingle free. Write today. Use Winthrops on this summer's jobs.

BECKMAN - DAWSON ROOFING COMPANY

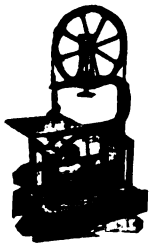
830 F. C. Austin Building
111 West Jackson Boulevard
CHICAGO, ILLINOIS

Also Manufactured by
LOCKPORT PAPER CO., LOCKPORT, N. Y.

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Parks "Contractor's Special." Complete with engine $180.



Parks "Century" 30-inch band saw, $100.



Parks "New Rapid" hollow chisel mortiser $100 without motor.



It takes only a moment to write for this Parks catalog now. It will save you hours of work and hundreds of dollars in labor-cost.

Finish up more houses this summer

Don't let labor-shortage or mill-delays cheat you out of the profits on an extra house this year.

Put a Parks "Contractor's Special" on the job to make time on framing and flooring. Set up a Parks band saw, mortiser, and jointer in your shop and turn out pieces of mill work the mill can't deliver promptly. Make up special window frames and sash yourself and save extra charges.

Parks machines help you cut the corners that pile up into real money in a season's building. You can find just the machine you need in the Parks catalog—individual or combination types, whichever your work requires. Get your Parks and cut your building costs!

The Parks Ball Bearing Machine Co.
STATION A, CINCINNATI, O.
Canadian Factory: 200 Notre Dame East, Montreal, Can.

PARKS
WOODWORKING MACHINES

KIMBALL BROS.
Elevators

Straight Line Drive Elevator Machinery

Push Button Elevators for Hospitals, Apartments, Hotels and Office Buildings

Passenger Elevators for every requirement

Light and Heavy Freight Elevators and Dumb Waiters

Side Walk and Ash Hoist Elevators for stores and schools

A special line of Light Electric and Hand Power Elevators for all purposes

Write for descriptive matter on the elevator you are interested in.



KIMBALL BROS. CO.
COUNCIL BLUFFS, IOWA

1106-22 Ninth Street **Council Bluffs, Iowa**

KANSAS CITY	DULUTH
DETROIT	MINNEAPOLIS
SOUTH BEND	DENVER
ST. LOUIS	SALT LAKE
CLINTON	DALLAS
DES MOINES	OKLA. CITY
NEW ORLEANS	FORT SMITH

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KENNEY NEEDLE SHOWERS

CURTAINLESS



A New York Herald-Tribune Model Home at Palisades Park, N. J.

INSTALLED IN MODEL HOMES—BECAUSE

They possess that appeal to women as well as men, which architects and builders seek to create.

They have proven their practicability and preference in thousands of the finest residences, apartments and hotels.

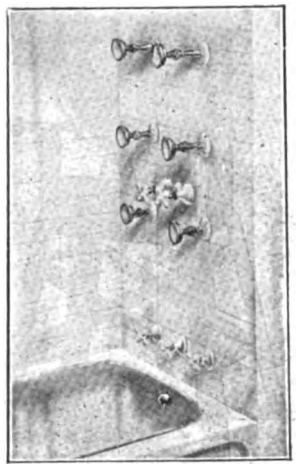
They influence rentals and selling prices.

They are of all brass construction, exposed parts nickel finish with white china trim. They add to the attractiveness of the bathroom; are easy to install, economical in space and water consumption, and require no curtain.

Their moderate first cost and elimination of all up-keep makes the Kenney Shower the most economical shower to install.

Kenney Needle Showers are for installation over end of tub or in shower stall.

Write for Booklet B



Congress Concealed Model illustrated at right, with hot and cold valve control as furnished in combination with concealed tub supply and waste fixture to assure an all-brass shower and tub unit with a uniform china trim.

THE KENNEY-CUTTING PRODUCTS CORP.

507 FIFTH AVE. **Dept. BA** **NEW YORK**

WEISTEEL

TRADEMARK REGISTERED

Compartment Partitions for Toilet, Shower and Dressing Rooms are the accepted standards. A comparison of specifications is the proof!

From the 16-gauge copper bearing furniture steel (1/16 inch thick), of which WEISTEEL is made on through the specifications, it outpoints all other products now available for toilet, shower and dressing room partitions.



A combination of standard sizes or a combination of standard and special sizes can be assembled to fit any architectural plan

Architects and builders who know its many points of superiority specify WEISTEEL in preference to all other materials, because of its fine appearance after installation, its long life, and low cost of upkeep.

Send for a copy of our catalog and compare specifications.

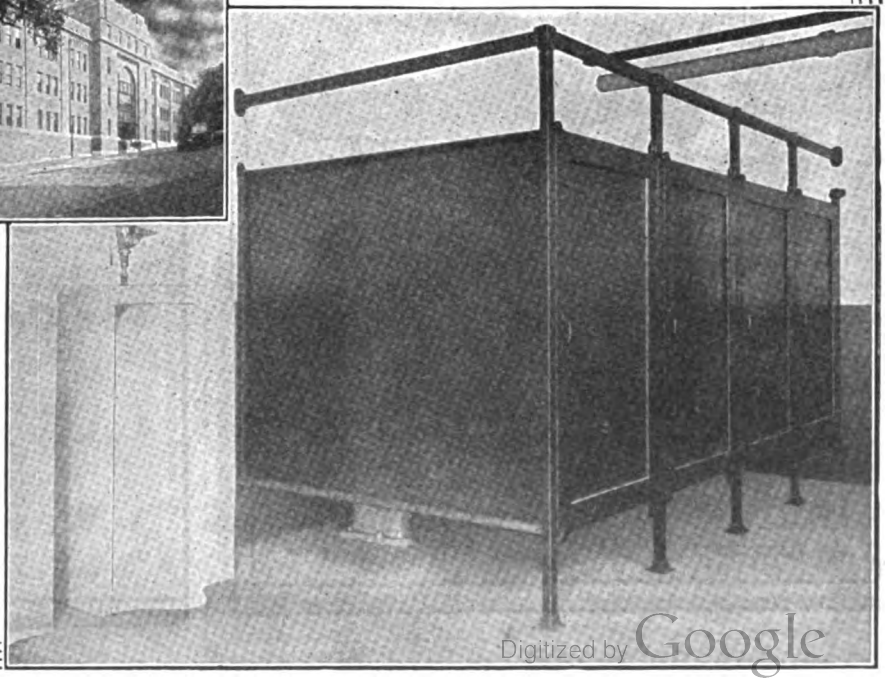
HENRY WEIS MFG. CO

General Offices: Atchison, Kansas

Branch Offices:

New York, 110 West 34th St.; Boston, 8 Beacon St.; Chicago, 105 W. Monroe St.; Los Angeles, 616 S. Utah St.; Atlanta, 1317 Citizens and Southern Bank Bldg.

Below—one battery of WEISTEEL Toilet Partitions in State Armory, Waterbury, Conn. Payne, Griswold & Keefe, Architects, New London, Conn.



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Contractors! Are you "cutting corners"?



Right now, when business is at its best and work is plentiful, are you using every possible means to speed up your production, thus enabling you to take on more work?

Are you "cutting corners" where costs are concerned, so that each job shows a better profit?

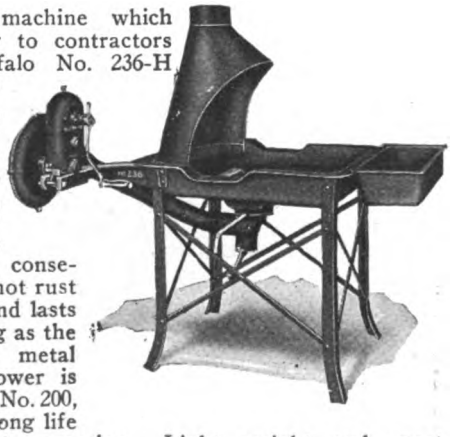
All you contractors who do any work with reinforced concrete can save money by using one or more Buffalo Contractor's Bar-Cutters. Hundreds of these powerful, rapid-action, lightweight machines are in use daily, cutting up bars and twisted stock.

The machine has a light strong frame of Buffalo "Armor-Plate," which is guaranteed forever against breakage.

Strong but light angle iron legs make it easy to take the machine from job to job. Machine can be furnished on wheels. Two sets of knives are furnished, for cutting light, medium and heavy bars. One man can cut the heaviest stock easily.

No. 10 Contractor's Bar Cutter cuts rounds up to 1⅛"; twisted squares up to 1". No. 11 cuts rounds up to 1⅜"; twisted squares up to 1¼".

Write for Prices NOW.



Another machine which sells largely to contractors is the Buffalo No. 236-H forge, with the new, heavy, one-piece drawn-steel hearth. This hearth, 24" x 24" x 6" deep, has no seams, consequently cannot rust out there, and lasts twice as long as the ordinary metal hearth. Blower is the Buffalo No. 200, known for long life and efficient operation. Light weight and great strength are combined to make No. 236-H the perfect contractors' forge.

Write for Catalog and Price NOW

Buffalo Forge Company

476 BROADWAY **BUFFALO, N. Y.**



MORENE

The Wall Finish Distinctive

Morene Finish over old painted walls shown above. Investigate the possibilities. Prominent users everywhere—Coral Gables, Copper and Brass Research, etc. Beautiful and artistic brochure on request. Agents wanted everywhere.

MORENE PRODUCTS CO., INC.
345 W. 28th ST. NEW YORK

Skylights

For Every Purpose

Ordinary perishable skylight construction is a thing of the past. Careful architects and builders select the permanent installation best suited to their building:

For Schools—
3-Way Armored Wired Glass
Steelead Construction

For Public Buildings—
Steelead Construction
3-Way Armored Wired Glass

For Industrial Buildings—
3-Way Ventilating Skylights
Steelead Construction

For Garages—
3-Way Ventilating Skylights

If you want a better skylight, write for details and data, giving the type of building you are planning.

American

3 Way-Luxfer Prism Co.

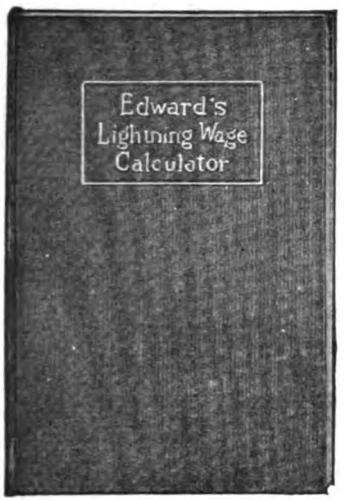
1309 S. 55th Street
CICERO, ILL.

358-368 Webster Avenue
LONG ISLAND CITY, N. Y.

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When You Meet the Payroll Face-to-Face

Payroll errors are common. Payroll figuring is more or less of an ordeal. The payroll is a time-taking task. Why go through with it all week after week when a Dollar Bill will settle the question now and for the rest of time? You will avoid errors and you'll certainly save a lot of valuable time and much brain work if you will simply consult

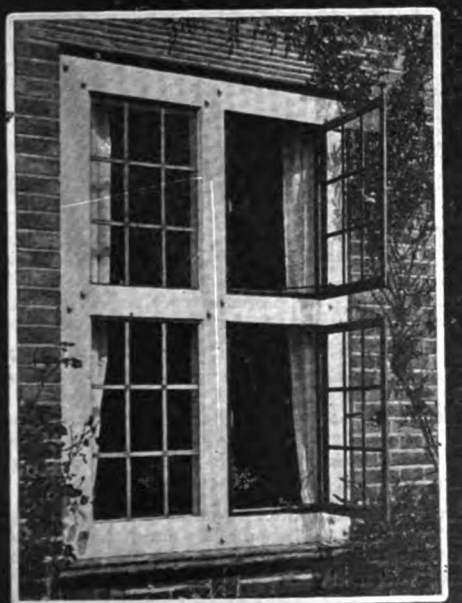


Edward's Lightning Wage Calculator

Forty-seven full page tables tell what the employee gets per hour on a weekly pay basis, per day on a monthly pay basis, per week on daily pay basis, for any period at hourly rates. Complete in every detail, it makes play of the payroll. You will do yourself a lasting favor if you will pin a Dollar Bill to this advertisement and mail it today. Cloth Covers. 60 Pages. 6x9.

Building Age and National Builder
239 West 39th Street New York

HOPE'S CASEMENTS



HENRY HOPE & SONS
103 PARK AVENUE · NEW YORK

Money ON the Floor!

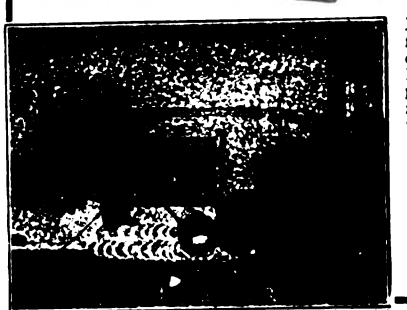


Sweep It Up With the Electric Rotary Machine



For sand papering and refinishing wood floors, old or new.

Stone Rub Holder attachments for surfacing and polishing Marble, Mosaic, Terrazzo, etc.



It's a sure money-maker for the wide awake builder who wants to increase his income. Our time payment plan makes the machine pay for itself while you are using it.

Write for complete information.

Electric Rotary Machine Company
3834 W. Lake Street
Chicago, Ill.

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Ideal Summer Vacations
BERMUDA
Only 2 Days from New York

8 Day Tours $90.—9 Day Tours $96.
and Up, Including All Expenses Longer Tours in Proportion

Bermuda is COOL in Summer
ALL OUTDOOR SPORTS
Golf, Tennis, Motor Boating, Sailing, Bathing
SAILINGS TWICE WEEKLY
Via Palatial Twin-Screw Oil-Burning Transatlantic Liners
"FORT VICTORIA"
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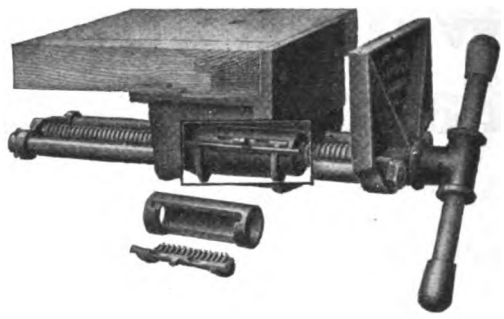


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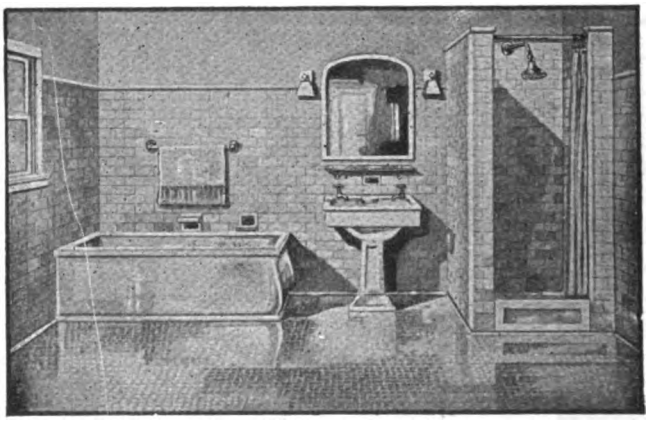
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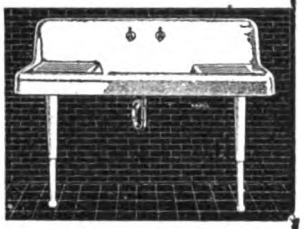
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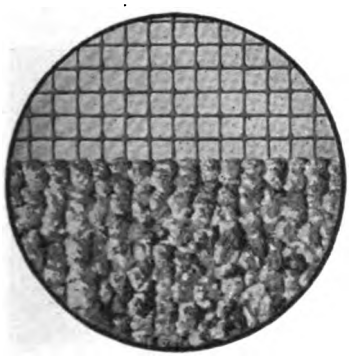
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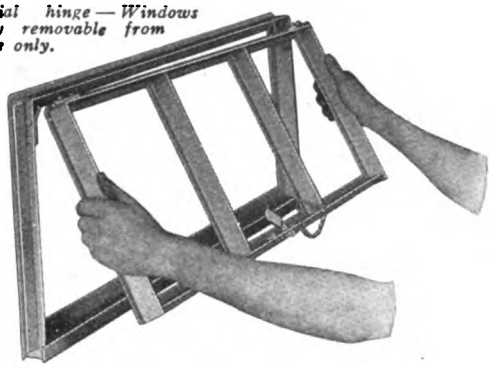
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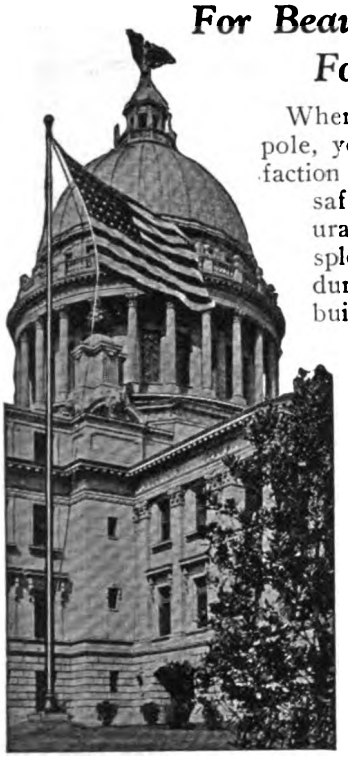
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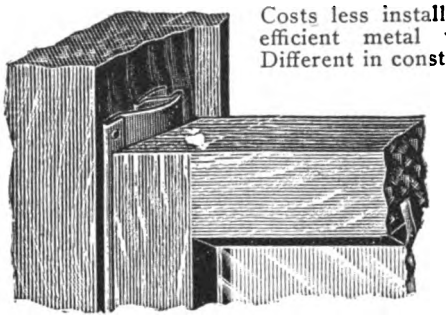
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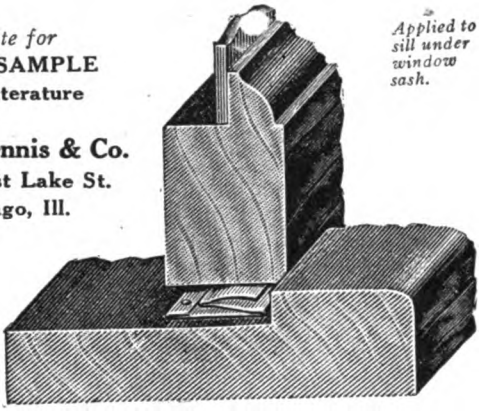


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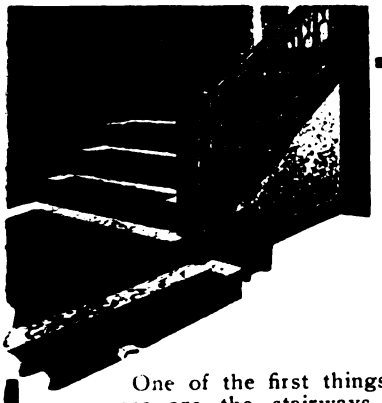
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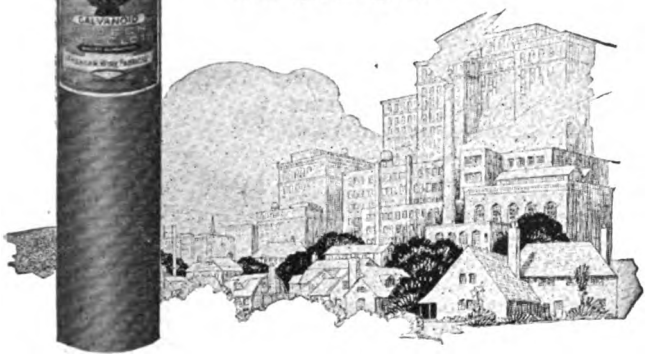


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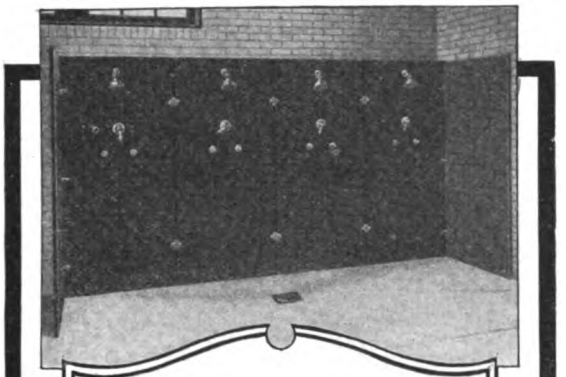
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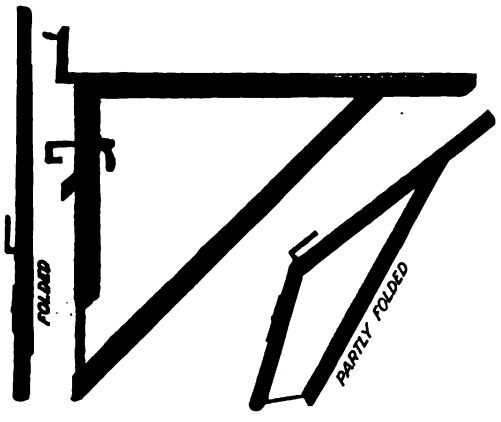
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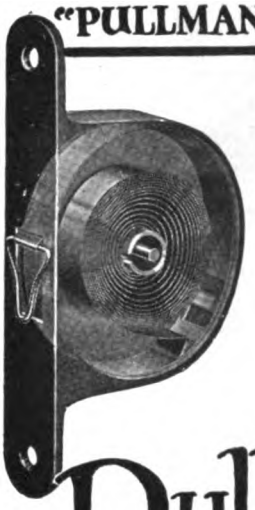
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A CHANCE to have a business of your own and still retain your present position. Write today—Let us tell you how to get started in this Paying Business and how you can make good by following our method in working up your business. Free Trial. Part down—balance easy payments, which machine will earn for you. $40 to $50 a day easily earned with the AUTOMATIC—the result of 16 years mfg. experience. Will save the wages of 5 men and do work that will stand inspection against the light. SKF ball bearings, carefully protected from dust—Whitney Silent Chain—Roller Pressure Regulator—Force Feed Lubrication—Edge Roller Border Work Eliminated—Steel, not cast iron, construction—all dust taken up on forward operation with New Vacuum Nozzle—all working parts enclosed—2HP Alternating Motor on 12 inch machine.

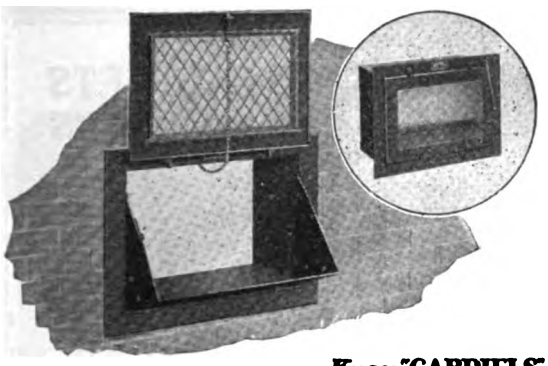
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Gabriel Rolled Steel Coal Chutes possess every feature for durability and utility at a cost that makes them the choice of discriminating builders. Build quality into your construction with Gabriels.

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Attached and detached in a few minutes by four bolts.

In all the models the table tilts forward for any depth groove.

Tilts sideways 25 degrees for beveling.

Will rip, groove, drill, crosscut, bevel, dado, jig, sand and grind.

Price

$80.00



14" clearance between arm and back of jig saw blade. Jig blade runs in saw slot and is operated by cam and gears bolted to side of base.

By inserting a file in place of big blade, many kinds of cutting dies can be made. Cuts any angle. BALL Bearings.

All furnished with special attachment that permits saw to Swivel or turn around and cut in any direction. Also manufacture Circular, Band and Jig Saws.

Guaranteed full purchase price back if not satisfactory.

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Write us today for samplebook "R" and ask for one of our repeat memo pads.

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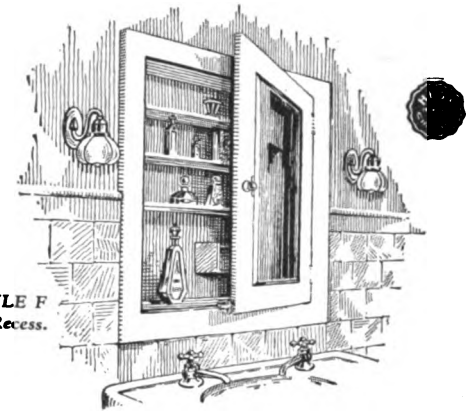
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Snow-White Steel



STYLE F to Recess.

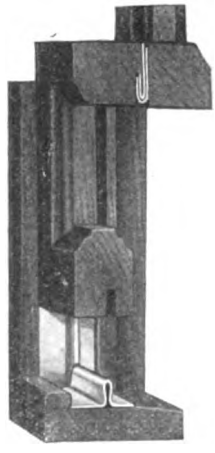
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They are suitable for the finest home, hotel or apartment, and are preferred by appreciative buyers, all over the United States.

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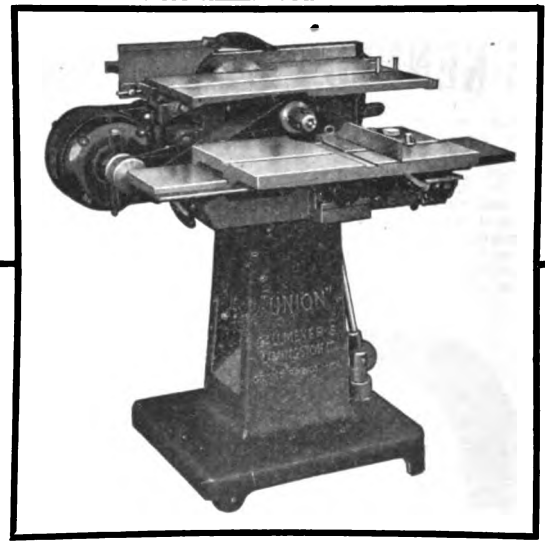
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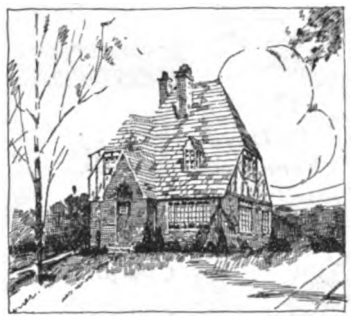
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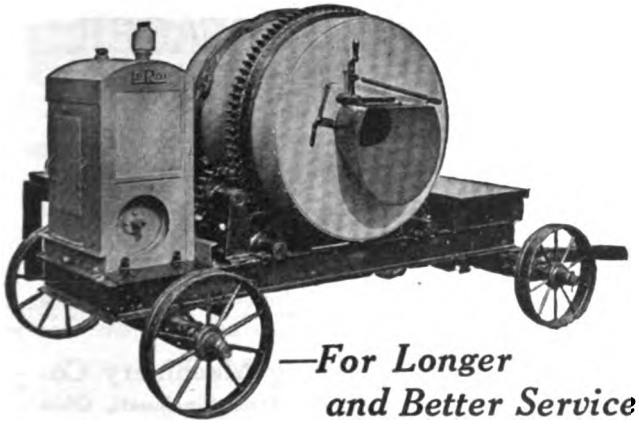
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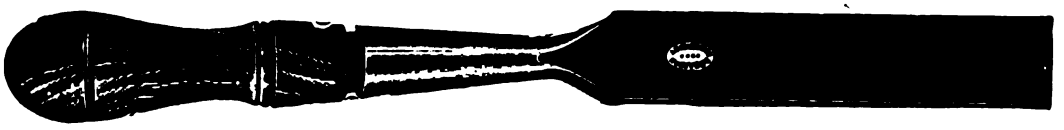
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Are particularly adaptable to sliding wardrobe doors used in school buildings.

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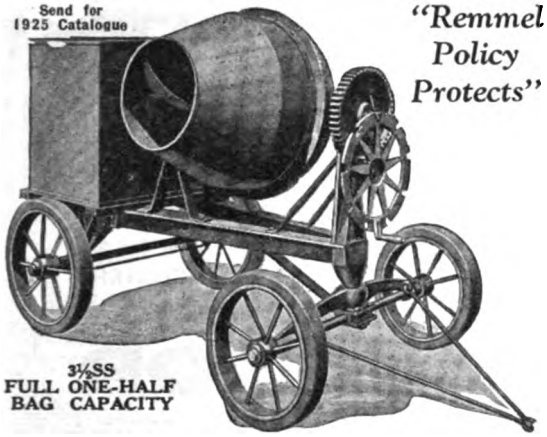
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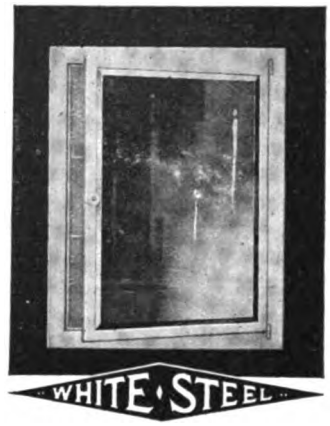
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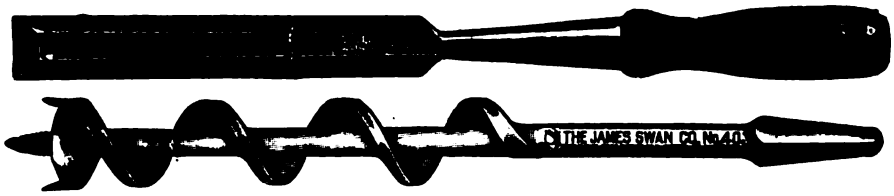
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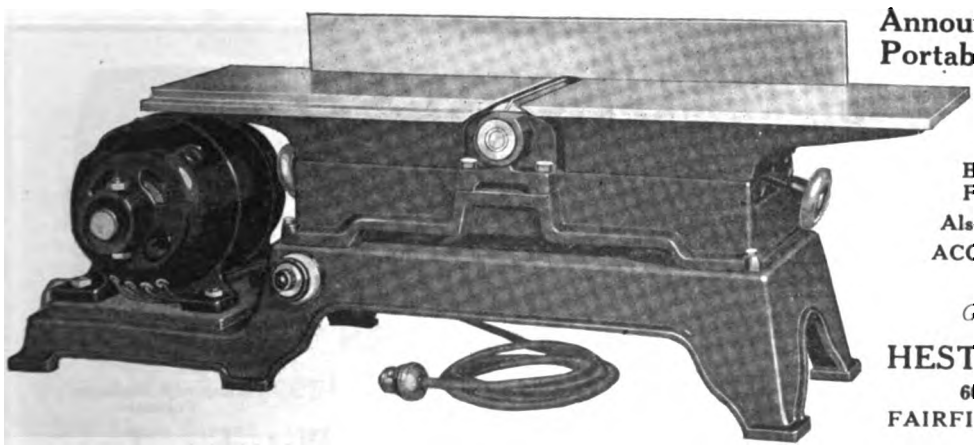
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Fence tilts to any angle.

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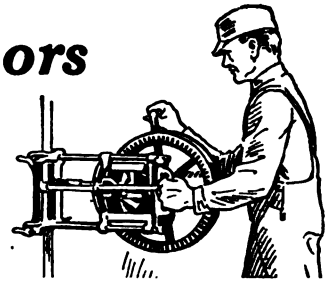
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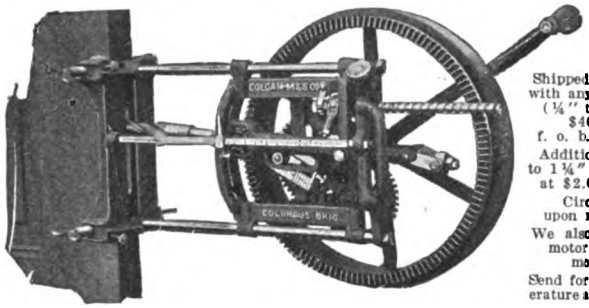
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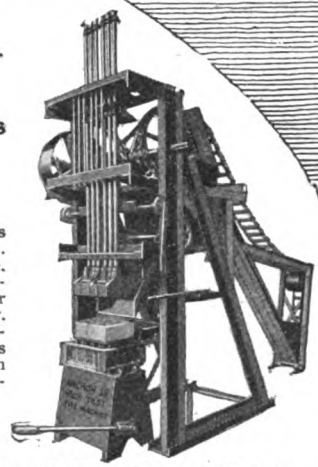
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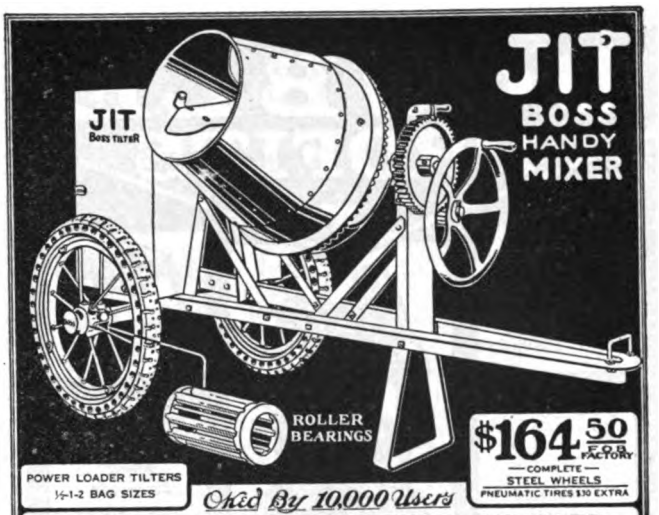


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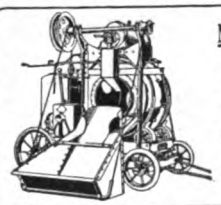
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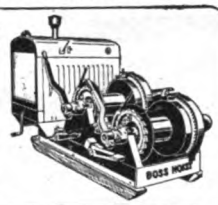
THE AMERICAN CEMENT MACHINE CO., INC.
KEOKUK — IOWA

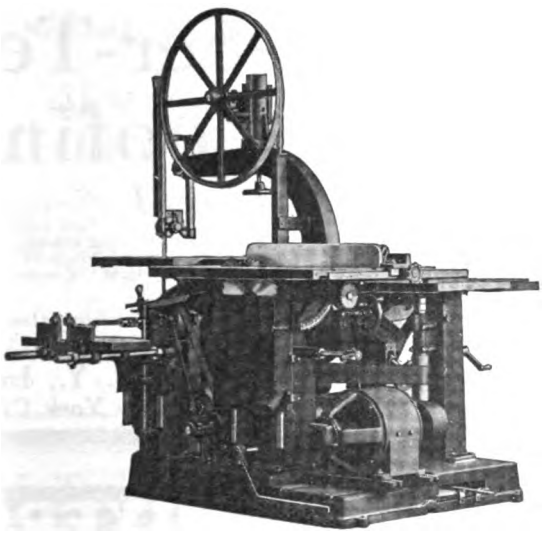
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$290 without power

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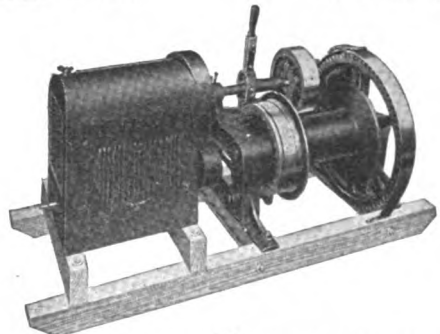
It is a "brute" for strength, equipped with two independently controlled "Giant-Line" 20 H.P. Clutches; back geared 5¾ to 1; will accommodate 1100 feet of ½" cable or 735 feet of ⅝" cable. Powerful foot brake and pawl ensures positive safety.

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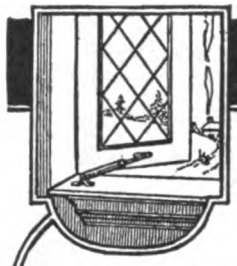
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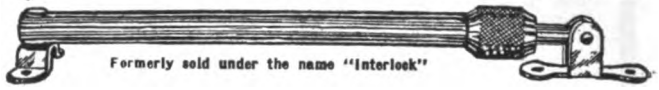
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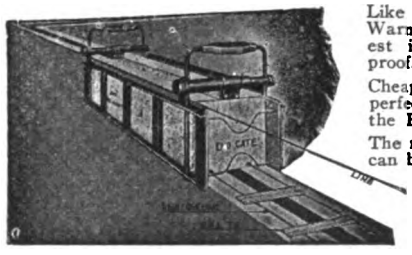
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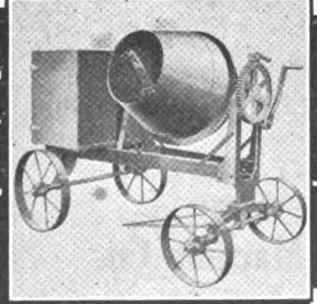
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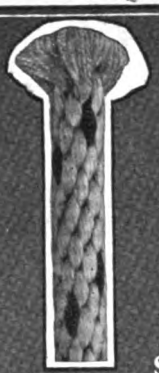
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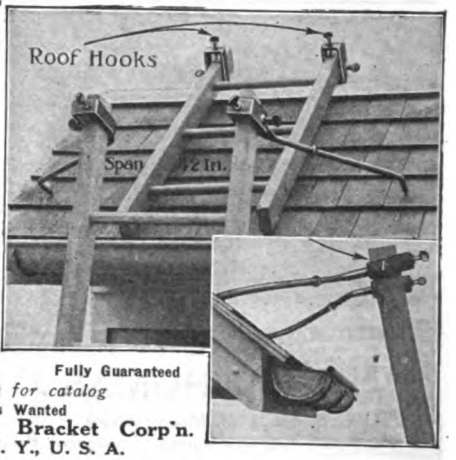
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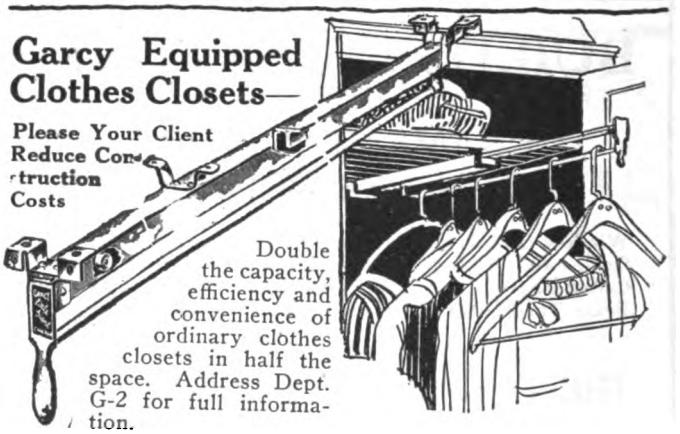
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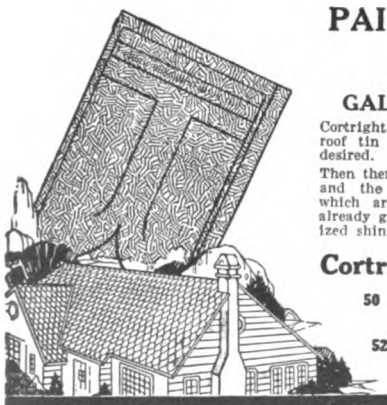
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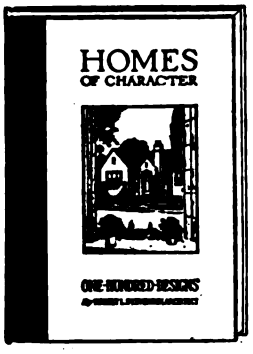
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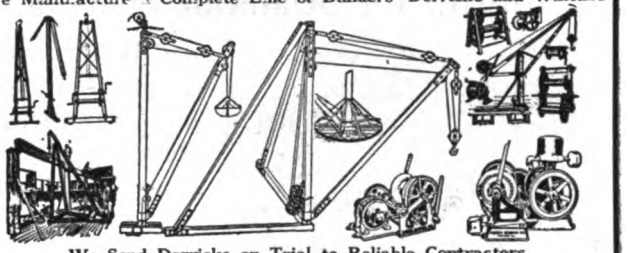
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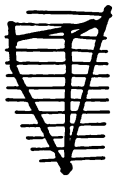
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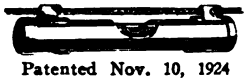
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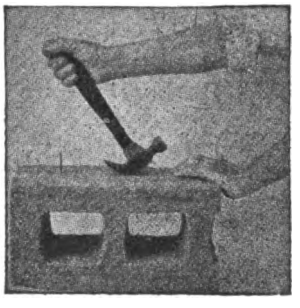
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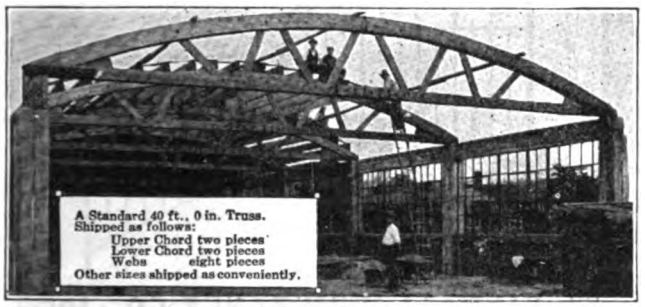
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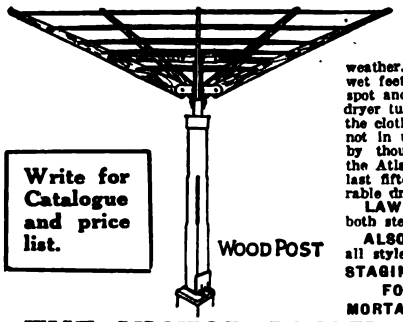
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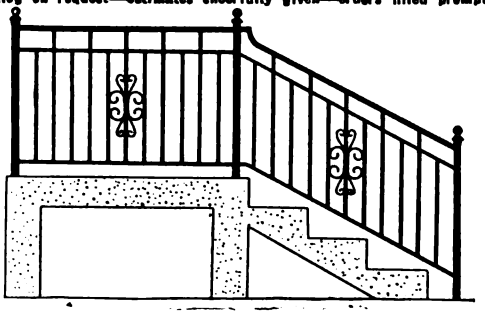
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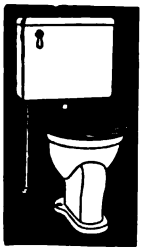


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W. F. & John Barnes Co. Rockford, Illinois

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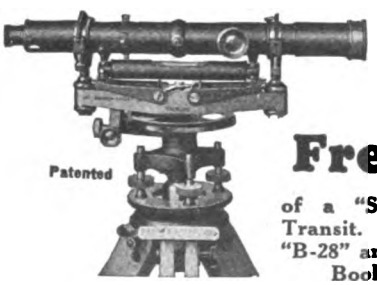
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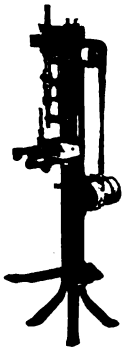
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Trims Corners Quickly and Neatly

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No. 101 Upright Hollow-Chisel Mortiser and Borer **$75**

Furnished also in automatic type. Let us tell you more about this serviceable modern equipment.



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Gulow and Vandalia Streets Cincinnati, Ohio

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ARMSTRONG CORK COMPANY, *Linoleum Division*, LANCASTER, PA.

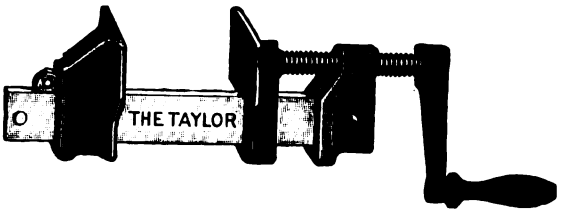
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AN INVESTMENT NOT AN EXPENSE

Quickest and strongest clamps made. Standard in U. S. Government works and in such concerns as General Electric Co., Singer Sewing Machine Co., Victor Talking Machine Co., etc. We can prove it in your own shop. Write today.

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POUGHKEEPSIE, N. Y.



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Saves $—saves wear and tear on bottom of wood columns

The Zimmerman Patent Iron Base prevents rotting of wood columns. They protect the base of columns for all time.

NO MORE WATER SOAKED BASES

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DURABLE ECONOMICAL
HANDSOME SANITARY
and **EASIEST ON THE EYES**

Look for the two copper wires in the selvage and our round tag on every roll of the genuine. Address Dept. "B"

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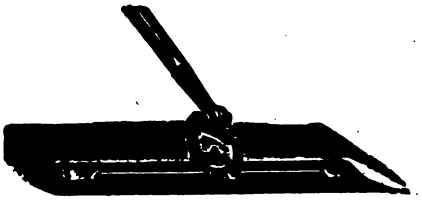
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There is an Abram double-action tool for every type of work. Send for catalog.

ABRAM CEMENT TOOL CO.

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Publishers of "The Finishing Touch."

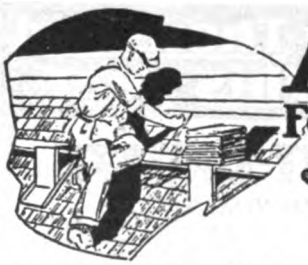


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AJAX Folding Metal Sheathing and Roofing Bracket





THE QUICKEST EVER AND AS SAFE AS THE EARTH UNDER YOUR FEET.

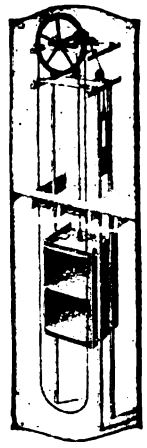
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No Wasted Labor

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ELEVATORS *and*
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9" cutting edge.
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is a BEAUTIFUL and DURABLE roofing material with EVERLASTING COLOR, EASY TO MAKE AND EASY TO LAY, FIREPROOF and WATERPROOF.

The perfect design and quality of this roofing and the Great Profit there is in making it justifies the satisfaction the roofing tile manufacture is giving our many customers.



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Saw Rigs Elevators
Pumps Mortar Mixers
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Combination Storm and Screen Door



2 IN 1

If your dealer can't supply you, write us and send his name.

COMBINATION DOOR COMPANY
FOND DU LAC - WIS.

Make A Few Thousand Extra This Year

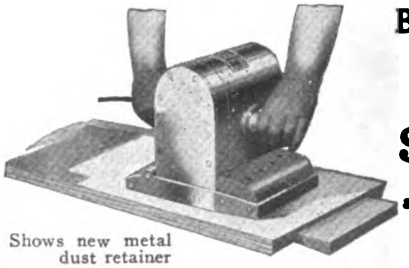
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Ball Bearing—will last for years.

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Made in Painted Tin, Galvanized Re-dipped Tin, Horse Head Sheet Zinc and Copper. We offer you an opportunity to take the Sales Agency for the best line of shingles made. Write for Agency proposition, prices, catalog and samples.

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The Editor and Board of Editorial Advisors

will gladly answer any question for you—free—on construction or equipment.

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Weatherproofing

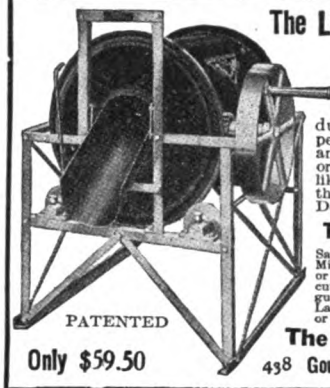
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Seals ALL joints AIR, DUST and water-proof, saves FUEL, prevents disfigurement of DECORATING, decay of SILLS and deterioration of MASONRY under windows.

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756 Washington Ave., No. Minneapolis, Minn.

ONE MAN CAN RUN IT



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The Little Whirlwind Concrete Mixer
THE MASTER MIXER
From Factory to You—Save 40%

Only *real practical* small mixer producing same *perfect* work as most expensive big machine. Complete with hand and power drive. A *winner* for the contractor or cement worker. *All steel and iron.* Just like the big $500 mixers, only simpler. Just the size you need at a price you'd like to pay. Does your work in one-fifth time.

The Whirlwind Way Makes Mixing Pay

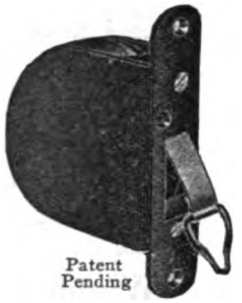
Saves its cost on one job. Capacity about 3 cubic ft. Mixes a batch a minute. Does PERFECT work, wet or dry, empties clean. Discharges direct to forms, cuts out the wheeling and backache. Satisfaction guaranteed or your MONEY BACK. Reference: Any La Crosse, bank or Dun Agency. Write for circular or order direct from this adv. and avoid delays.

Only $59.50 **The Little Whirlwind Mixer Co.**
438 Gould Street La Crosse, Wisconsin

8 MEN CAN'T STICK IT

CALDWELL SASH BALANCES

HAVE STOOD THE TEST OF TIME
UNIFORM MORTISES



Patent Pending

For use in all classes of new work
Box Frames Unnecessary

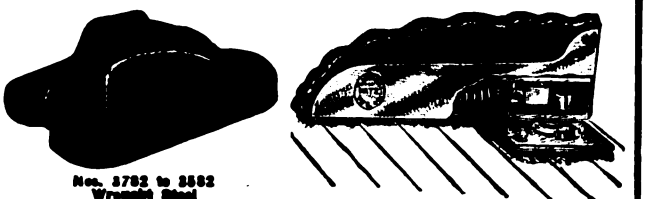
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Cheapest method for modernizing old windows, as alterations in sashes and frames are not necessary. Sashes should be weighed before ordering.

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Nos. 3782 to 3862 Wrought Steel

No. 3782. Sash Lock. Steel, antique copper finish. Per dozen.....85c
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Our catalogue No. 10, showing a complete line of Builders' Hardware and Carpenters' Tools, will be sent to you upon request, FREE of charge.

NICHOLAS HARDWARE CO.
123 Marion Street Oak Park, Ill. (Chicago)

The LOGICAL Answer to the PORTABLE Problem

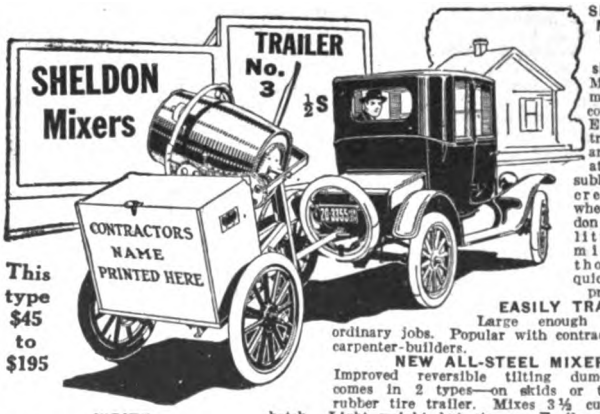


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Combination Portable

—built on the idea that the best is the cheapest in the long run. No other portable combines such an extremely wide range of usefulness with such absolute accuracy, dependability and long life.

Get the facts—Write for bulletin E

The Tannewitz Works Grand Rapids, Mich.



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Money makers for contractors. Easy to transport and operate. Why sublet concrete work when a Sheldon costs so little and mixes so thoroughly, quickly and profitably?

EASILY TRAILED
Large enough for all ordinary jobs. Popular with contractors and carpenter-builders.

NEW ALL-STEEL MIXER
Improved reversible tilting dump mixer comes in 2 types—on skids or two-wheel rubber tire trailer. Mixes 3½ cu. ft. per batch. Light weight but strong. Easily pulled by light car. Ideal contractor's outfit. Send for full details.

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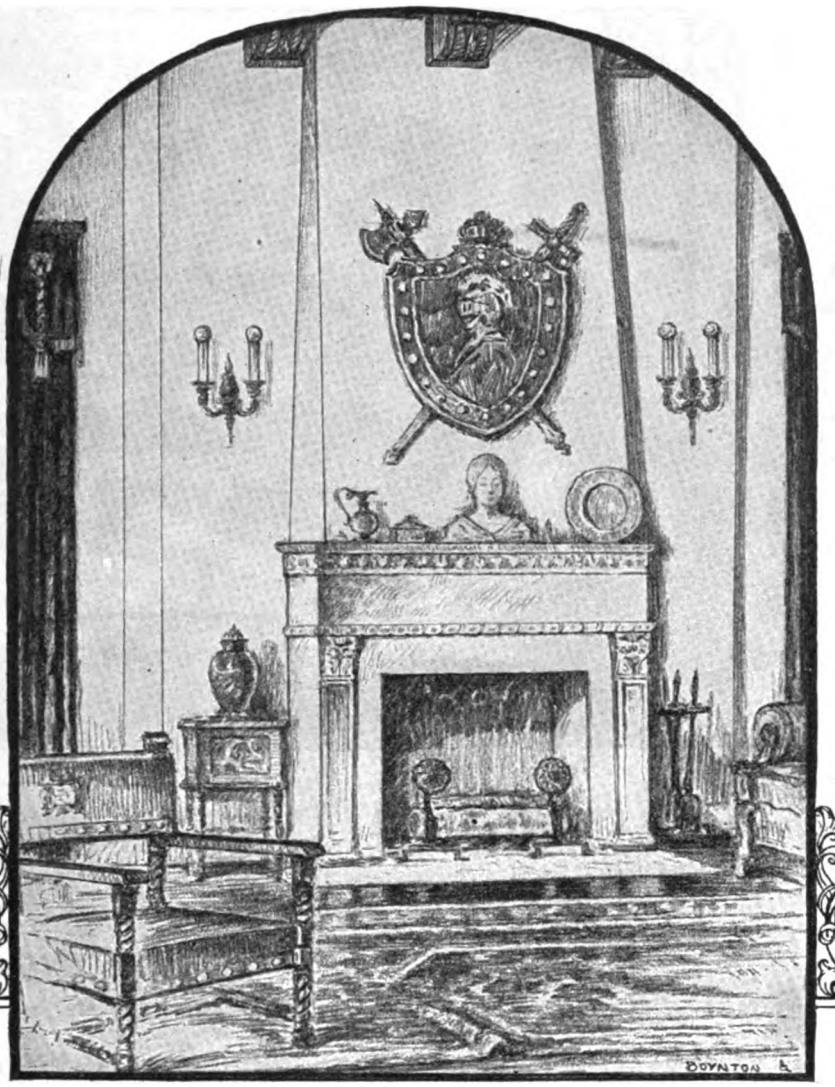
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Better Plastering Demands Expanded Metal Lath

Milcor "Expansion" Casing, for Door and Window Trim (patented June 13, 1922) not only adds greatly to the fine appearance of the rooms it adorns, but effects a very worth while saving in initial cost of construction.

IT is the unseen parts of the Home, or any building, which should command the most serious consideration of the owner, the architect, and the contractor. Flimsy construction adds hundreds of millions of dollars annually to the price owners pay—a reckless waste that is detrimental to all concerned.

For staunch, firesafe, crackproof, permanent interiors there is no adequate substitute for plaster on metal lath. In addition to these advantages, artistic effects that are impossible with any other finish, are made simple with plaster and Milcor Expanded Metal Products. Interesting information on modern wall textures and artistic interior wall treatments is embodied in the new Milcor Brochure on Better Plastering. This is one of the most handsome and helpful pieces of literature ever developed on this important subject.

A copy is free to you, without any obligation—use the coupon or Post Card or letter.

MILWAUKEE CORRUGATING CO., MILWAUKEE, WISCONSIN
CHICAGO, ILL. KANSAS CITY, MO. LA CROSSE, WIS.

Milcor "Expansion" Corner Bead (patented June 13, 1922) insures true-lined, straight, smooth corners, protected permanently against bumps and abuse. The economical cost of erection of this Corner Bead warrants consideration, too.





MILCOR
EXPANDED METAL PRODUCTS

"The Backbone of Better Plastering"

MILWAUKEE CORRUGATING CO., Milwaukee, Wis. B.A.

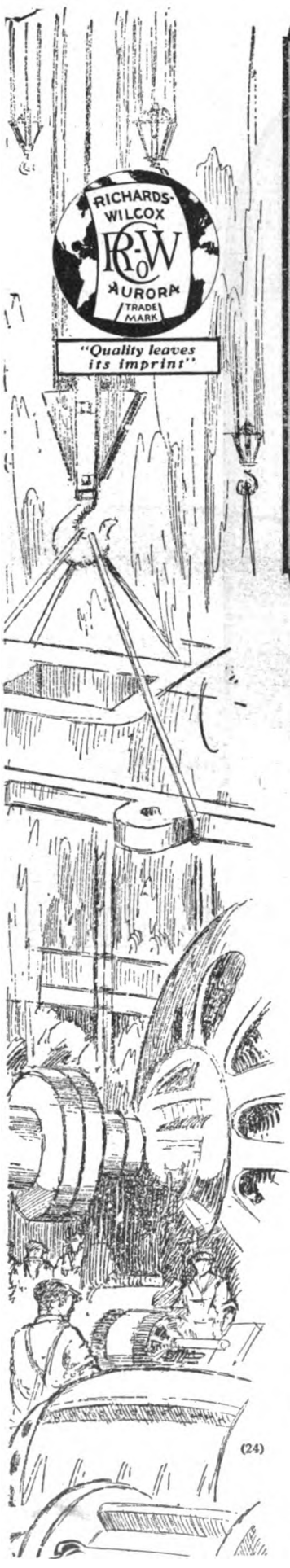
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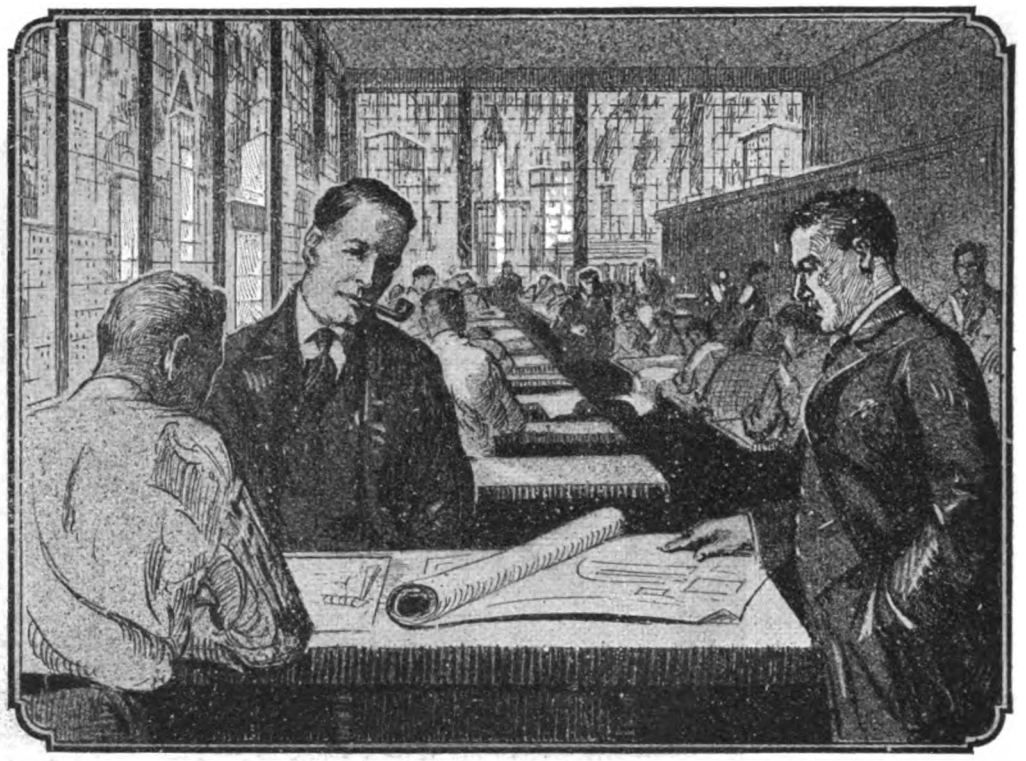
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THE SPIRIT OF PROGRESS

Richards-Wilcox Hardware is designed to meet modern requirements

ARCHITECTS, BUILDERS, CONTRACTORS—all who are engaged on construction work—are keenly alive to the spirit of the times. Methods that were in vogue but a comparatively few years ago are discarded for other and *better* ways of doing the same things.

This "spirit of progress" is the keynote of the R-W organization. The R-W Engineering Department is familiar with every doorway need. Its carefully prepared designs are reflected in R-W Products that exactly meet modern doorway requirements.

This meticulous care, both in design and execution, extends to every item of R-W manufacture. There is a type of R-W Door Hanger suitable for doors of every description—house, elevator, garage, fire, industrial and barn. These various types are standard equipment of their kind.

To R-W "spirit of progress" is joined the R-W "spirit of service." Near you is an R-W branch anxious to help you with your doorway problems. Or, write the R-W Engineering Department giving your needs. Its experience is at your command, without cost or obligation.

Richards-Wilcox Mfg. Co.

"A Hanger for any Door that Slides."

AURORA, ILLINOIS, U.S.A.

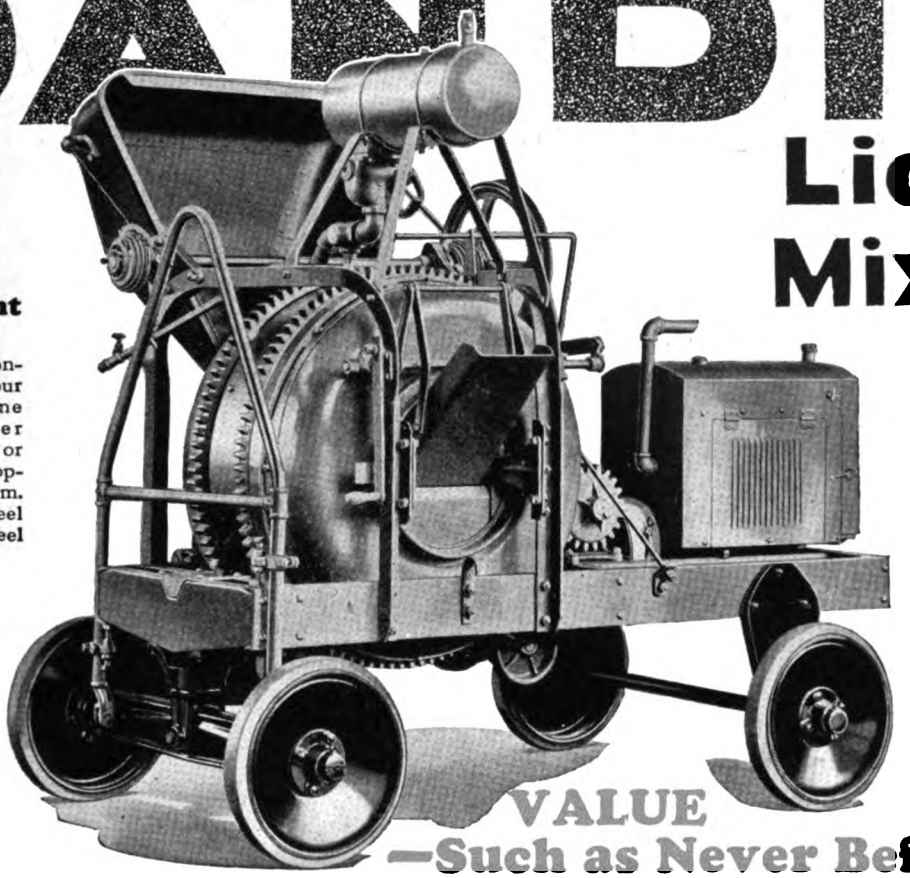
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KOEHRING

DANDIE

Light Mixer

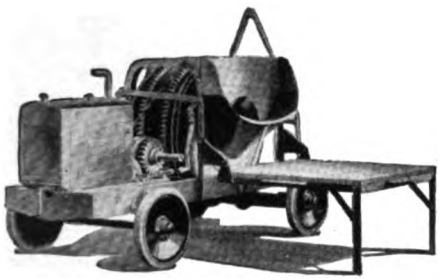


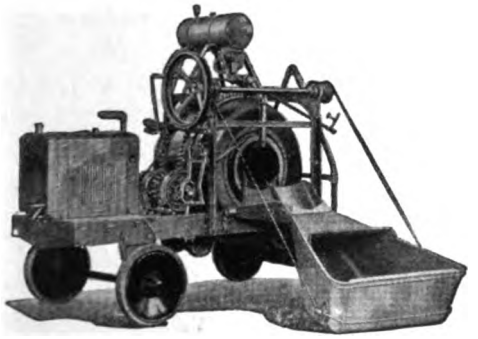
Dandie Light Mixer

7 cu. ft. mixed Concrete. Two or four cylinder gasoline engine. Power charging skip, or low charging hopper and platform. Rubber tired steel disc wheels or steel rimmed wheels.

Send back the coupon

VALUE —Such as Never Before Seen in the Light Mixer Field!





STILL within the price range for light mixers, this 7 ft. Dandie Model offers extraordinary values!

A heavy duty, four cylinder, radiator cooled gasoline engine, completely enclosed in a steel housing.

Completely enclosed transmission always running in an oil bath, and mounted on shaft revolving in roller bearings. Steel disc wheels with rubber tires or regular steel rimmed wheels. Beveled edge, chilled drum rollers, pinned to shaft which turns in big bearings! Koehring double gear drum drive!

In every bearing—every detail—you'll find the reliable Koehring construction the surest insurance of reliability and long, trouble-free service life!

Light Weight—just the balanced light weight to be hauled on its rubber tires behind your car or truck and to lose no time between job and job.

This Dandie Model has been tested and tried by *overwork* and abuse—and it's more than worthy of the Koehring *name*.

For high speed operation—solid, substantial construction and light weight portability—this Dandie has established new values and standards in the light mixer class.

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PAVERS, MIXERS—GASOLINE CRANES, DRAGLINES AND SHOVELS

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Take our word for it, you will be putting yourself in the way of extra profits and extra value if you learn all about the details of this Dandie Model before you decide on a 7 ft. light mixer. No obligations. Send back the coupon today!

A 2830-1

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BERMICO

The Ideal Builders Sheathing Paper

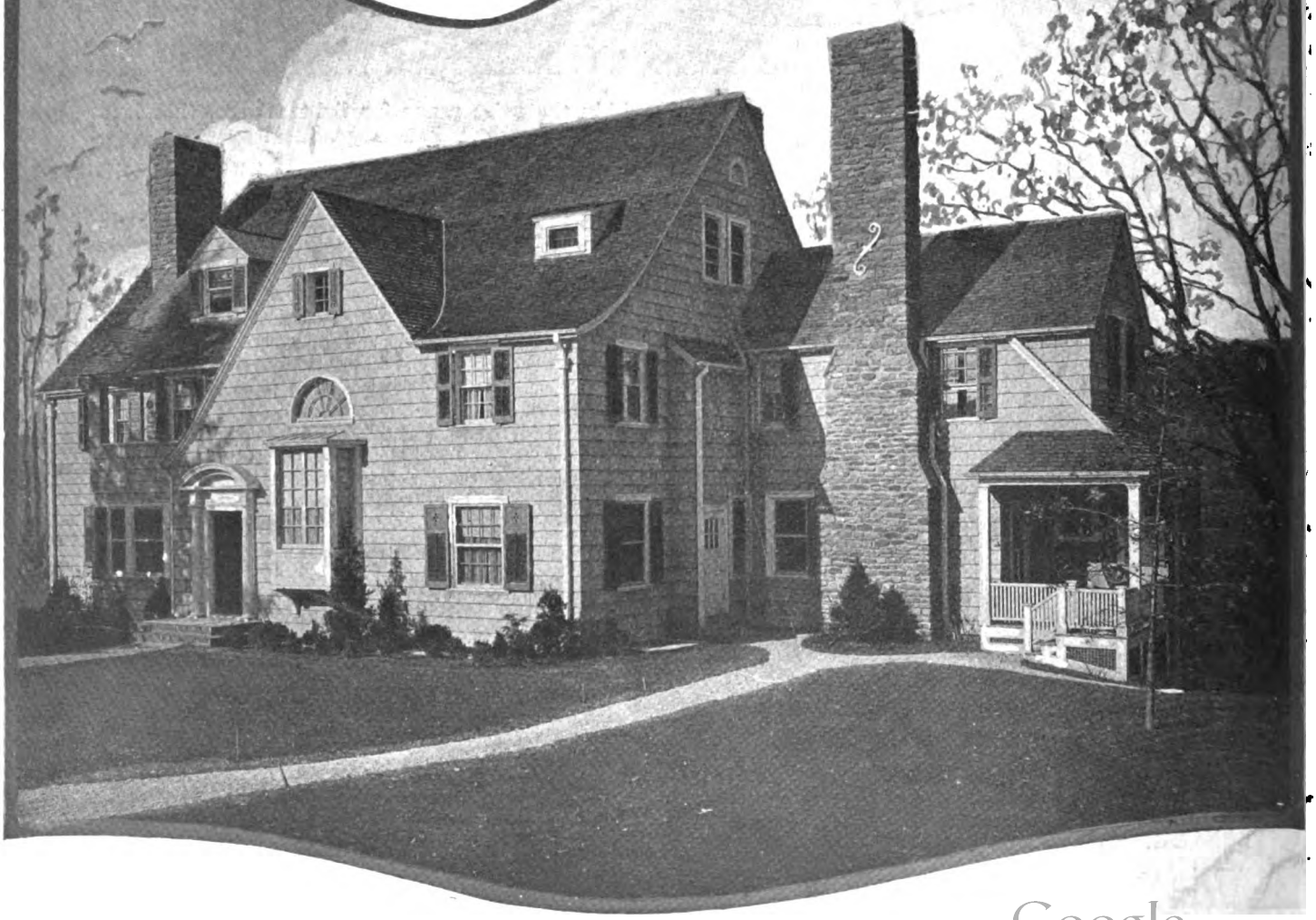
Make Your Order for Building Paper a "Bermico" Order and Insist Upon It

BERMICO is a most efficient insulation for all buildings. It is made only from spruce wood fibre, clean and tough. It contains absolutely no filler, is weather-proof and non-porous, and it really insulates a building against the cold air of winter and the heat of summer.

Let us send you our descriptive folder containing samples of Bermico in four different thicknesses. Also we will advise you name and location of nearest Bermico Dealer.

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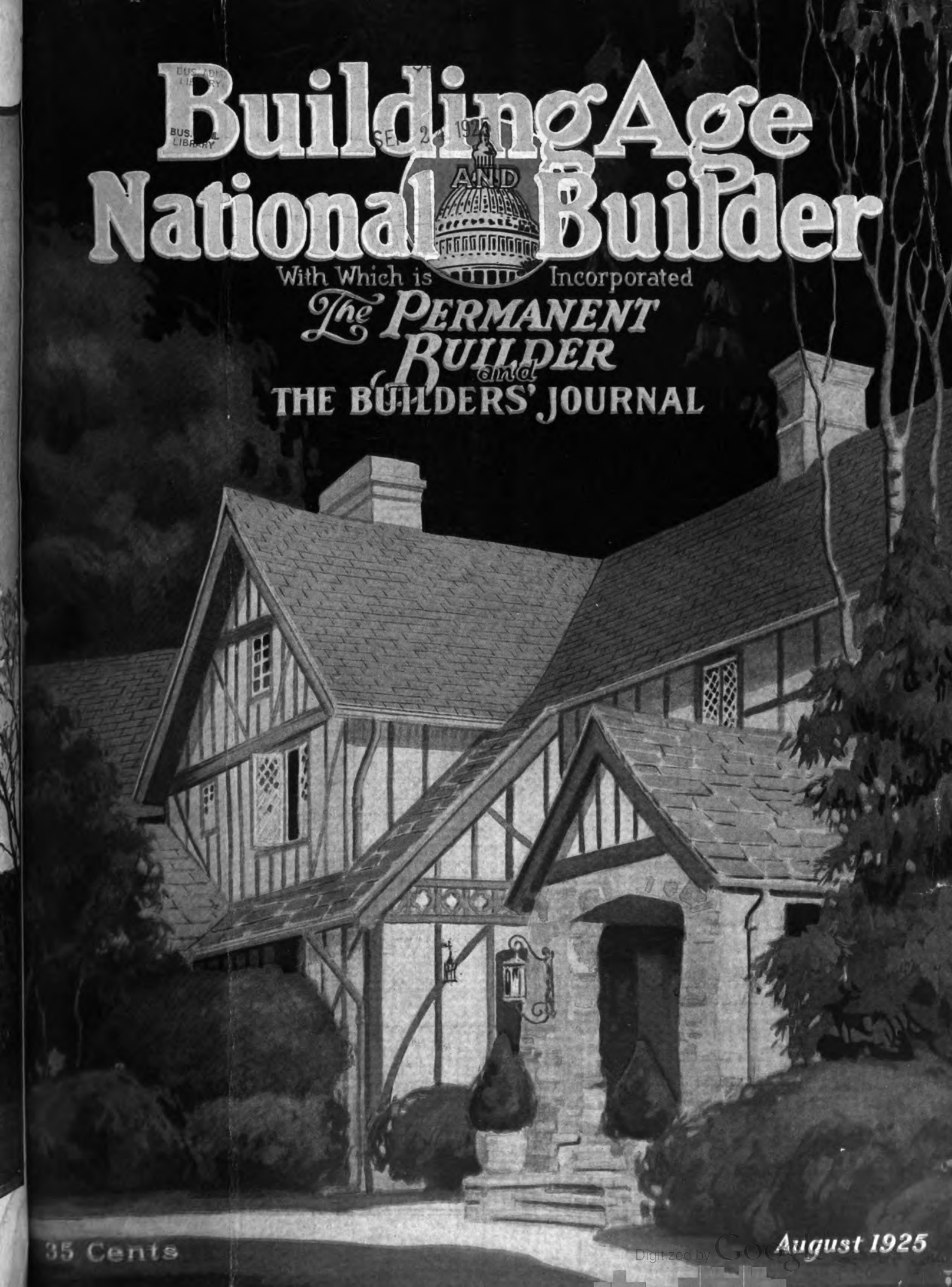
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35 Cents

August 1925

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BIRD'S ROOFS



Only half the roof covered, yet how much better the old home looks!

RE-ROOF with Neponset Twin Shingles—right over your old shingles! They will not only improve the appearance of your home but will give it absolute protection from rain, snow or sleet, and from flying sparks and embers.

Why are Neponset Twin Shingles waterproof and fire-safe? Because they are manufactured of long-fibred felt, saturated and impregnated, through and through, with waterproofing asphalt. Then, imbedded in the asphalt-felt, under great pressure, is natural crushed slate, straight from the quarries—in handsome Venetian Red, Lincoln Green and Blue-Black.

Neponset Twin Shingles are time savers and money savers—first, because you can lay them right over the old shingles, without going to the trouble and expense of ripping them off; second because they are self-spacing, and are more than twice the width of ordinary individual shingles. They can be laid quickly and efficiently.

Re-roof in August, with Neponset Twin Shingles.

BIRD & SON, inc., East Walpole, Mass.

Established 1795

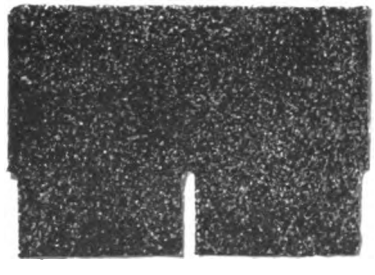
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***New York:* 295 Fifth Avenue**
Canada:
Bird & Son, Ltd., Hamilton, Ont.

Bird's Twin Shingles

Bird's Four-in-One Shingles

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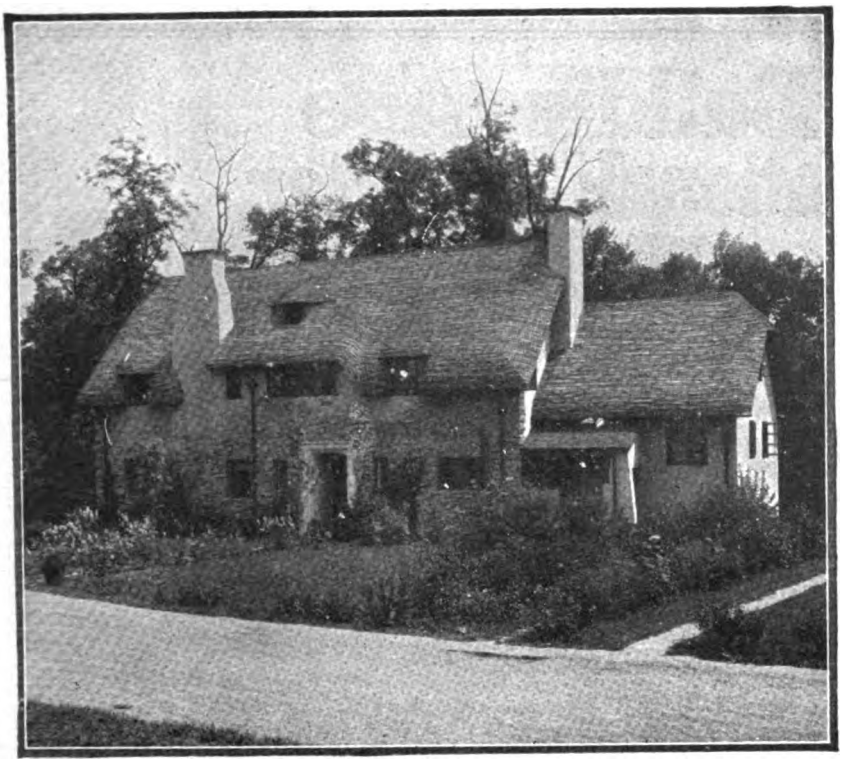


Bird's Neponset Black Building Paper

Bird's Wall Board

Bird's Neponset Rugs and Floor Covering

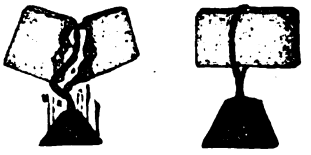
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Res. of James Gilmore, Esq., Reg. Arch. Cincinnati, Ohio, Bishopric Ivoral Cream Stucco over Bishopric Base on all exteriors.

Stucco walls of greater strength

Ordinary Stucco — Bishopric Stucco



The enormous tensile strength of Bishopric Stucco is illustrated here. This is just one of the Bishopric guarantees of permanence on the wall.

How Bishopric provides
lasting beauty and protection

Rare beauty of shade and texture, with permanent protection from the elements are exclusive Bishopric qualities that are being appreciated more and more by those interested in home-building. BISHOPRIC is a super-stucco with greatly increased strength, thus providing durability and protection so vital to every building, whether it be large or small. In Bishopric only can be obtained the wide variety of beautiful shades and textures now demanded by those who appreciate the best. With Bishopric, beauty and protection go hand in hand.

Tensile strength tests show BISHOPRIC far superior to other stuccoes.

BISHOPRIC is fireproof, magnesia rock used is the same as that used to line furnaces and smelters — Tremendous heat has no effect on it.

BISHOPRIC is thoroughly waterproofed by a secret process shutting out moisture, cold, heat, wind and vermin.

BISHOPRIC Insulation Qualities are practically perfect, retarding heat also cold, eliminating objectional noises.

BISHOPRIC requires no painting or renewing — A wall built to stand for generations.

In mansion or bungalow, Bishopric Stucco has a place, whether laid over stately lines or designed after those quaint cottage effects, now so popular.

Bishopric Stucco endures in every clime, retaining its strength and its original color in temperatures of either extreme. Economical in original cost, negligible in upkeep, warm in winter and cool in summer, BISHOPRIC STUCCO over BISHOPRIC BASE not only wins friends but keeps them. And no wonder, for it yields itself to any form and endures from generation unto generation.

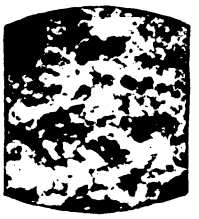
An interesting booklet "Bishopric For All Time and Clime," illustrated with photographs of beautiful houses built with Bishopric Stucco, plaster and sheathing units will be mailed you Free.

Bishopric is Sold by Dealers Everywhere

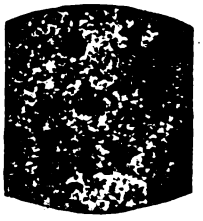
The BISHOPRIC MANUFACTURING Co.
17 ESTE AVE. CINCINNATI, OHIO
NEW YORK CITY — CINCINNATI — OTTAWA CANADA

The BISHOPRIC MFG CO OF CALIFORNIA
LOS ANGELES

Ordinary Stucco



The average stucco being marketed today is extremely porous and therefore NOT WATERPROOF. Notice the spongy porous formation in this enlargement and compare the density of Bishopric shown below.



Bishopric Stucco

BISHOPRIC STUCCO *over* BISHOPRIC BASE

"A Complete Wall Unit for all Time and Clime"

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With Which is Incorporated
The Permanent Builder and The Builders' Journal
Registered U. S. Patent Office

Vol. XLVII, No. 8

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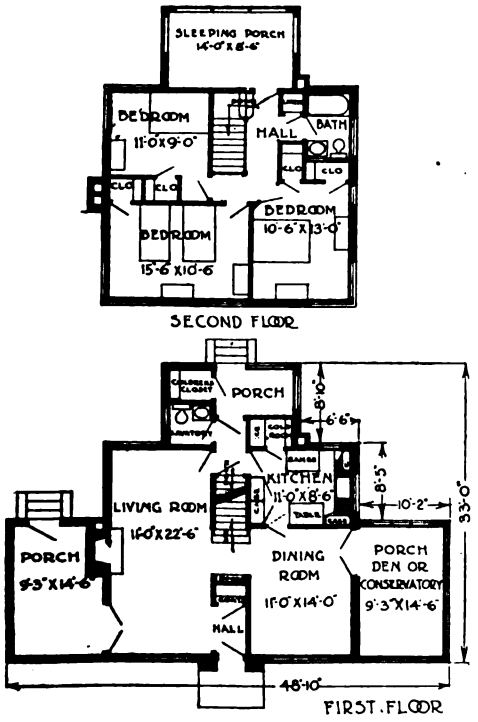
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Here is another one of our popular designs, House No. 713. The photograph shows the house as built at Atlanta, Georgia. The sketch and floor plans are taken from "Face Brick Bungalow and Small House Plans."

HOMES That Satisfy

THE owner of a Face Brick home has a satisfaction that grows with the passing years. The longer he lives in it the more he realizes its value as an investment.

He knows that its beauty will not fade, that it will last longer than his lifetime, that it is economical to own, and that it has a high resale value in case he wishes to sell.

No wonder so many Face Brick homes are being built!

The contractor who wants to get into the building of Face Brick homes can find all the information he needs in our **"Manual of Face Brick Construction."** It is a complete, practical treatise on the subject. Sent for one dollar.

If you are building Face Brick houses you will want our **"Face Brick Bungalow and Small House Plans,"** showing 104 designs grouped in separate books of 3 and 4, 5, 6, and 7 and 8-room houses. The set, one dollar; single booklets, 25 cents each.

THE AMERICAN FACE BRICK ASSOCIATION
1764 Peoples Life Building · Chicago

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. . . and naturally they favor Barrett Giants

(*which reduce laying costs—increase profits*)

Mineral-Surfaced Shingles
Everlastic Giant Shingles
(*Russet-brown Green Red Blue-black*)

Everlastic Single Shingles
Everlastic Multi-Shingles
Everlastic Octagonal Shingles
(*Green Red Blue-black*)

Roll Roofings
Everlastic Smooth-Surfaced
Everlastic Mineral-Surfaced
(*Green Red Blue-black*)

TRUE enough—the old timers didn't pay much attention to figuring costs. Often it was largely a matter of luck whether they made a profit on a roofing job or not.

But those days are over.

Today what contractors want is a shingle that offers sound savings in application costs.

No wonder Barrett Giants have stepped to the front! The definite savings found in these extra-large, extra-thick shingles were bound to appeal strongly to roofers and contractors everywhere. Actually 196 fewer shingles and 392 less nails are needed for each square than with ordinary shingles. Less work—bigger profits.

Because of their large size and extra heavy body, Barrett Giants are unusually good for application right over worn-out shingles. Not one minute of labor spent in tearing off the old roof—no "kicks" because of broken shrubbery and litter of splinters.

And a permanent, rot-proof, rust-proof, fire-safe job when you've finished!

All these considerations mean satisfied customers; but the attractive, colorful appearance of Barrett Giants makes this satisfaction even more secure. They come in soft red, moss green, blue-black—and the new addition, russet brown. Ask your dealer to show you Barrett Giants and other Barrett Roofings.

Barrett ROOFINGS

THE BARRETT COMPANY
40 Rector Street New York City

IN CANADA:
The Barrett Company, Limited
2021 St. Hubert St., Montreal, Quebec, Canada

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OTIS

FOR NEARLY THREE QUARTERS OF A CENTURY

THE WORLD'S WORD FOR ELEVATOR SAFETY

OTIS ELEVATOR COMPANY

OFFICES IN ALL PRINCIPAL CITIES OF THE WORLD



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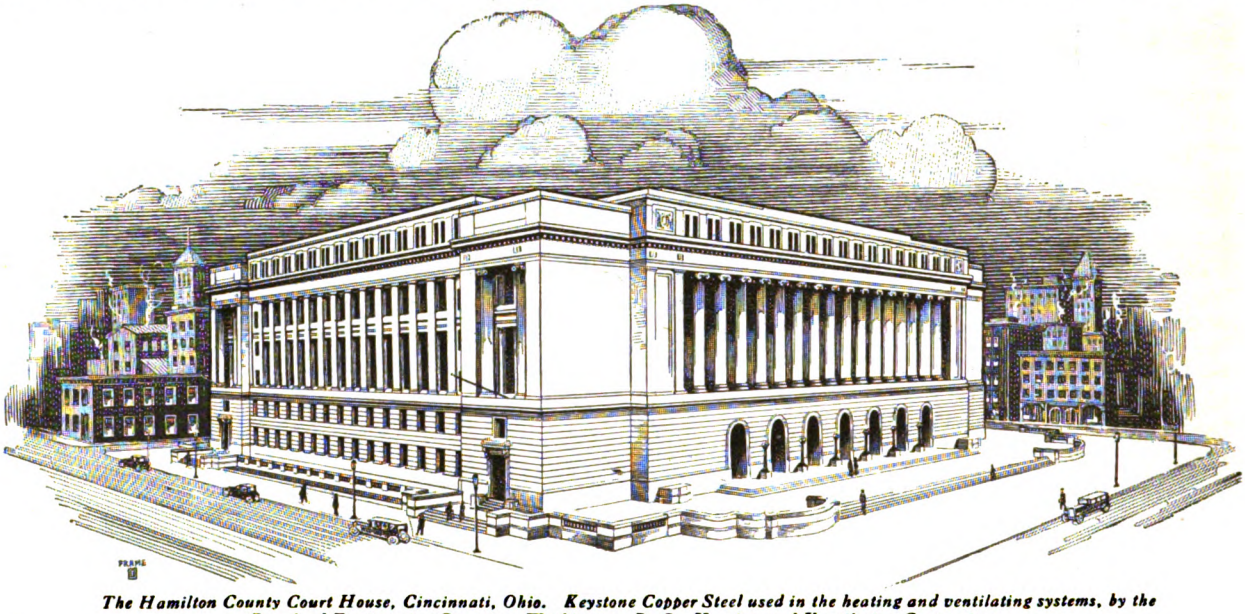
KEYSTONE COPPER STEEL

Your Measure *for* Sheet Metal

The real measure of value for sheet metal is the endurance test—*does it last?* For long service use

KEYSTONE COPPER STEEL

BLACK AND GALVANIZED SHEETS, AND ROOFING TIN PLATES



The Hamilton County Court House, Cincinnati, Ohio. Keystone Copper Steel used in the heating and ventilating systems, by the Standard Engineering Company, Washington, D. C., Heating and Ventilating Contractors. Stewart A. Jellett Company, Philadelphia, Consulting Engineers.

The destructive enemy of sheet metal is *rust.* It is a well established fact that an alloy of copper gives to Steel Sheets and Tin Plates the maximum of *rust-resistance.* Keystone Copper Steel is unequaled for roofing, siding, spouting, gutters, culverts, metal lath, and similar uses. It assures roofs and sheet metal work that will withstand the ravages of fire, wear and weather. Shall we send proofs from actual service tests? We manufacture Steel Sheets and Tin Plates for all purposes and specially adapted to the requirements of builders and contractors: Black Sheets, Special Sheets, Apollo and Apollo-Keystone Galvanized Sheets, Corrugated Sheets, Formed Roofings and Siding Products, Roofing Tin Plates, Bright Tin Plate, Black Plate, etc. Sold by leading metal merchants. Our products represent the highest standards of quality and utility. Write for quotations, also our booklet — *Roofing Tin Plates.*



American Sheet and Tin Plate Company

General Offices: Frick Building, Pittsburgh, Pa.

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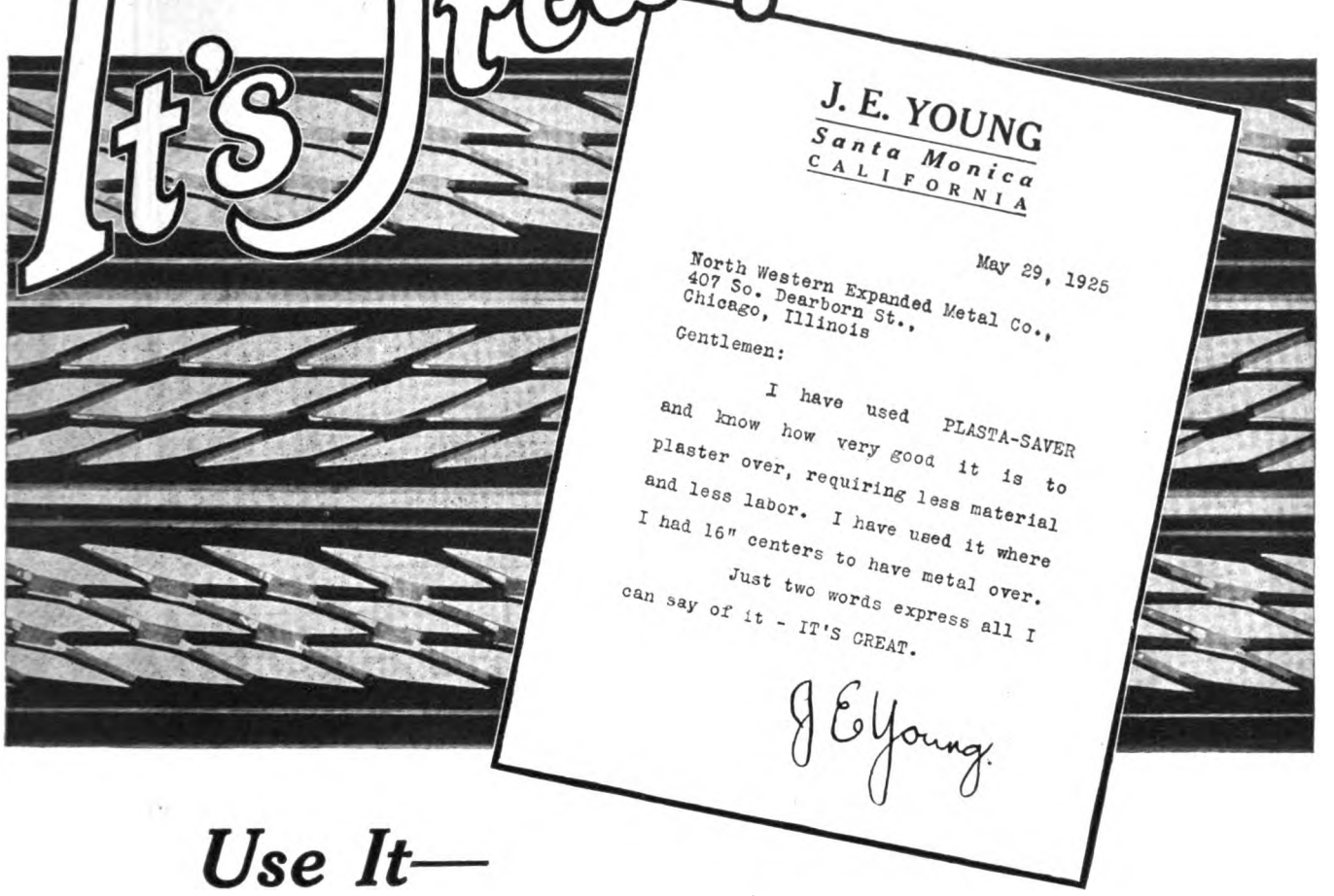
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"It's Great!"



J. E. YOUNG
Santa Monica
CALIFORNIA

May 29, 1925

North Western Expanded Metal Co.,
407 So. Dearborn St.,
Chicago, Illinois

Gentlemen:

I have used PLASTA-SAVER and know how very good it is to plaster over, requiring less material and less labor. I have used it where I had 16" centers to have metal over.

Just two words express all I can say of it - IT'S GREAT.

J E Young.

Use It— in place of Wood Lath

WITH PLASTA-SAVER the contractor can give his customer the high-grade plastering accruing from the use of a fire resisting, crack preventing STEEL plastering base and reinforcing and still meet competitors' prices based on the use of inferior, combustible bases.

PLASTA-SAVER is the most economical type of Metal Lath made. Contractors say that they can save from three to five bags of mortar by using this ⅜" rib lath—and this without "skinning the job." Also that it is possible to "scratch" at least fifty yards more surface per day and with no more effort—the stiffness of the lath over the supports preventing "sags" or waves.

A trial will convince you, as it did Mr. Young, that you can use this very economical and satisfactory PLASTA-SAVER Metal Lath to advantage in a great deal of your work.

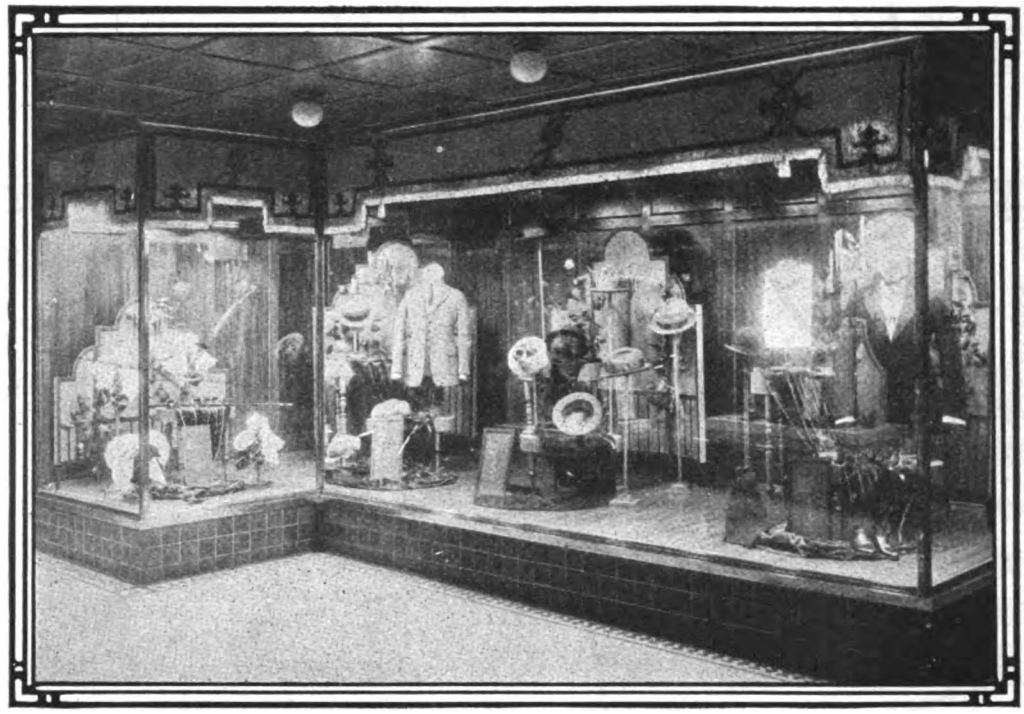
Shall we send you Samples of PLASTA-SAVER and a copy of our "Recommended Specifications"?

NORTH WESTERN EXPANDED METAL CO., 1204 Old Colony Bldg., CHICAGO

NORTH WESTERN

Plasta-Saver
FLAT RIB
METAL LATH

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Zouri Indirect Key-

CONTRACTORS are glad to make Zouri installations. Straight line glass setting, made possible by Zouri key-set construction, affords them a sure method of bringing windows into line without uneven pressure on the plate glass. Each turn of the key moves the entire copper gutter, not merely that portion where the force is applied.

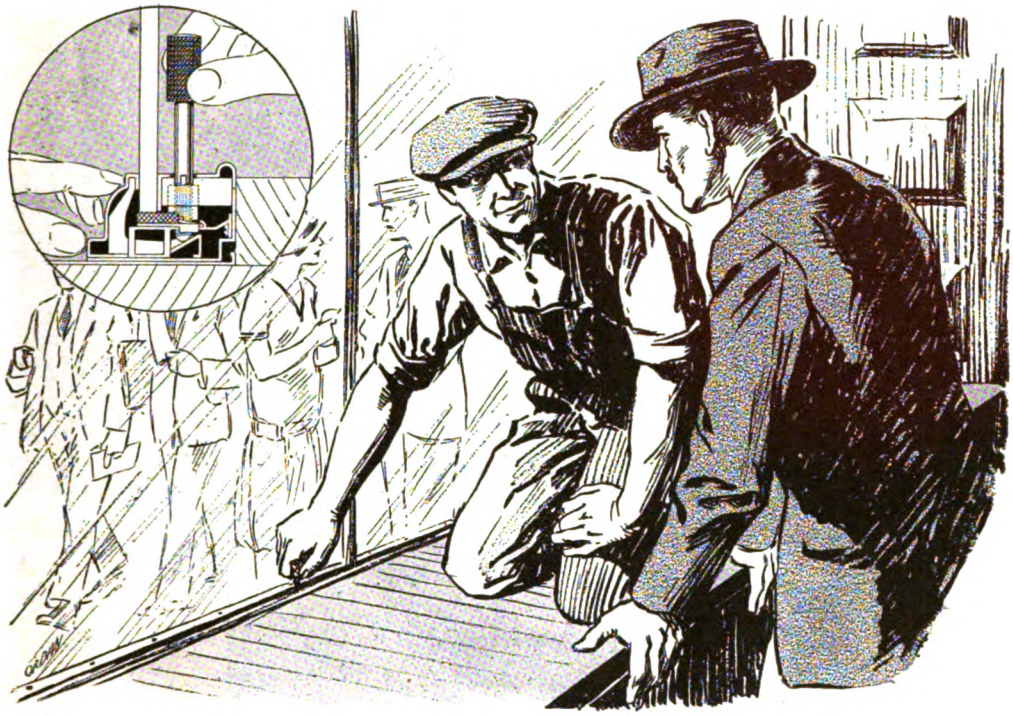


Useful detail sheets and data book

This handbook has been written for architects, contractors and builders. It deals primarily with construction and gives plans and diagrams showing best approved methods of window and display space arrangement. The detail drawings will be welcomed by specification writers. A word from you will bring them—promptly.

ZOURI KEY-SET STORE FRONT CONSTRUCTION

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-Set Store Fronts

Settings thus simply and profitably made, in less time, explain a popularity which has built for Zouri the largest body of distributors in the field.

Prompt delivery assured by extensive facilities, and the Underwriter's approval, make Zouri a specification upon which you can rely.

Zouri Drawn Metals Company

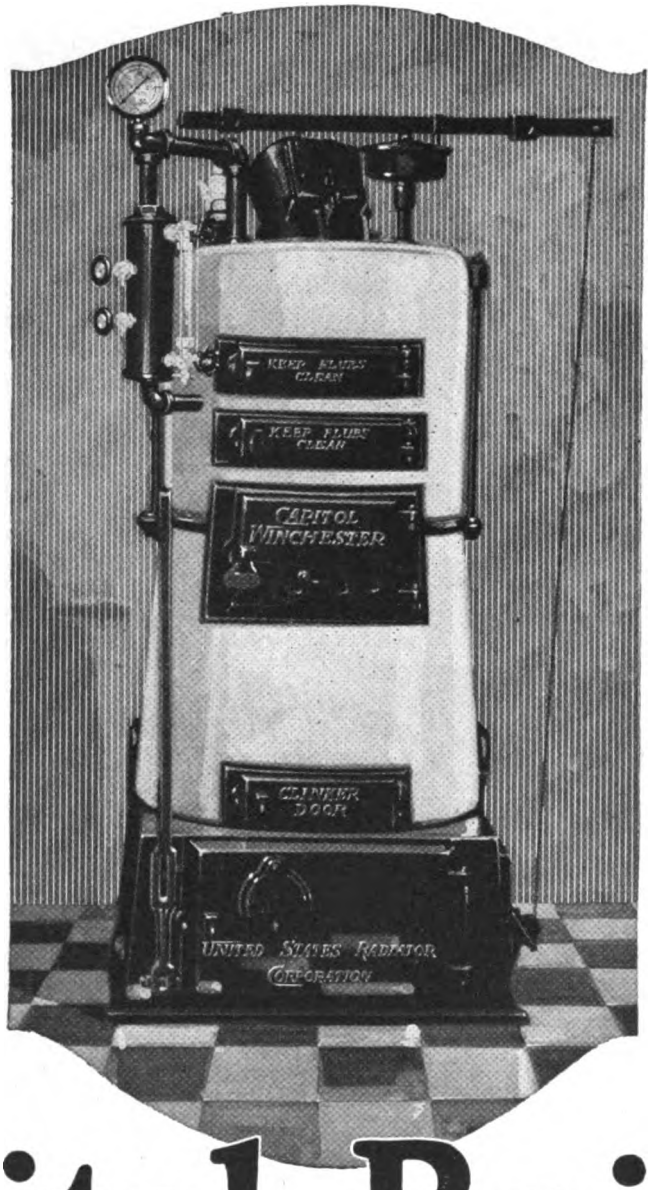
Factory and General Offices

1608 East End Avenue, Chicago Heights, Illinois

DISTRIBUTORS IN PRINCIPAL CITIES—NAMES ON REQUEST

LISTED BY THE UNDERWRITERS LABORATORIES

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Capitol Boilers

The specification of Capitol Boilers and United States Radiators has always been sound practice.

It is now very *popular* practice because a great national advertising campaign is carrying the Capitol story to millions of homes.

As we have said before we want you to regard this campaign as yours—quite as well as our own.

And, above all, please remember that when you specify our products you can count upon us to assume our full share of the responsibility.

UNITED STATES RADIATOR CORPORATION

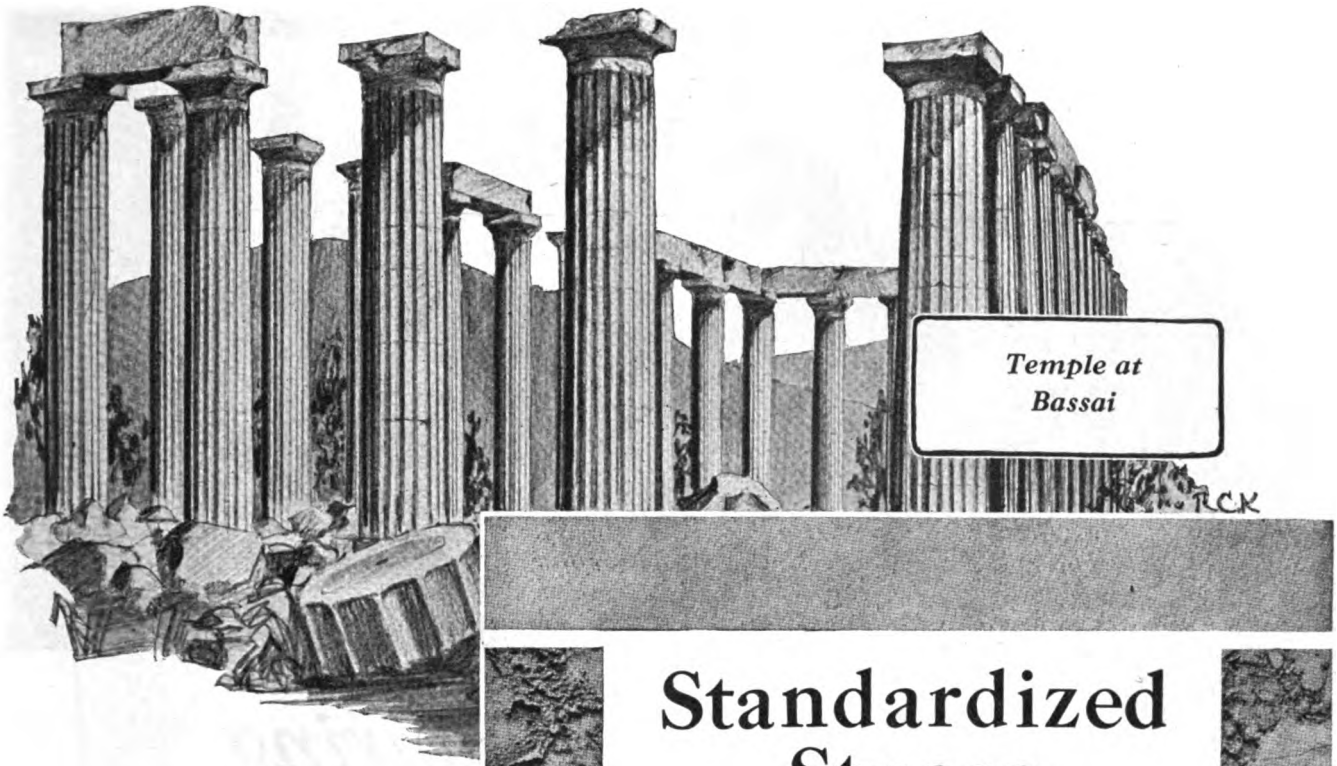
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*Warehouse stocks carried at all points except those indicated by star

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The Story of STUCCO

The temple of Apollo at Bassai in Greece, built about 470 B.C. of yellow sandstone, was faced entirely, both inside and out, with Stucco. No better ground could be imagined for the decorative polychrome painting which at this period of Grecian history had reached a very high degree of beauty. Even the temple pavements were made of a specially resistant stucco and stained in various patterns with gay pigments. Without stucco, in fact, the early architect would have been hard put to it to secure his effects.

MULLER
ASBESTONE
GUARANTEED PRODUCTS
TRADE MARK



Standardized Stucco

ASBESTONE Quality is Uniformly High and Dependable

ASBESTONE Stucco cannot vary. Before it is shipped samples of each lot are given a laboratory test to ascertain its tensile and modulus of rupture strength. The only standardized stucco.

ASBESTONE Stucco is unequalled in tensile strength, elasticity and durability. It is weather and fireproof; a material economical and permanent. If applied according to our own instructions, it is guaranteed not to crack, expand or contract of its own volition. In remodeling old and building new structures, it meets every requirement.

Sold by most reliable dealers

If your local dealer cannot supply you, write for samples and prices. ASBESTONE stucco, quality considered is extremely low priced.

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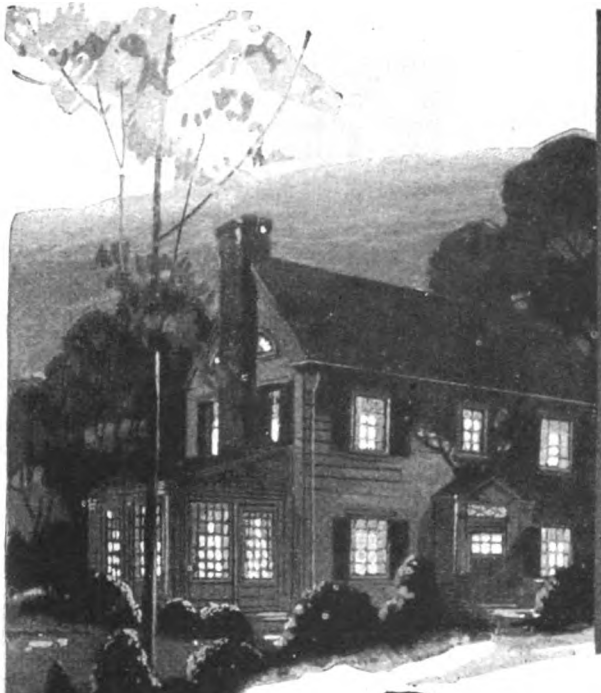


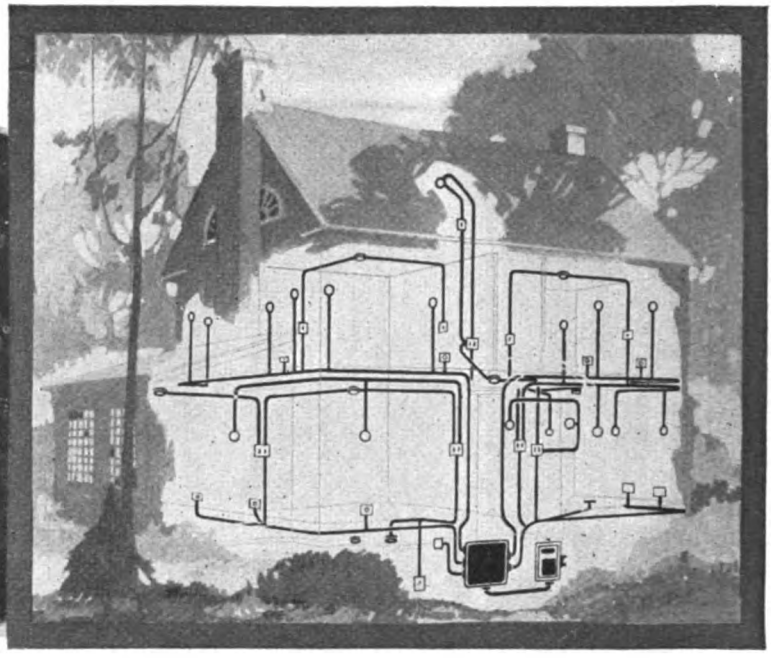






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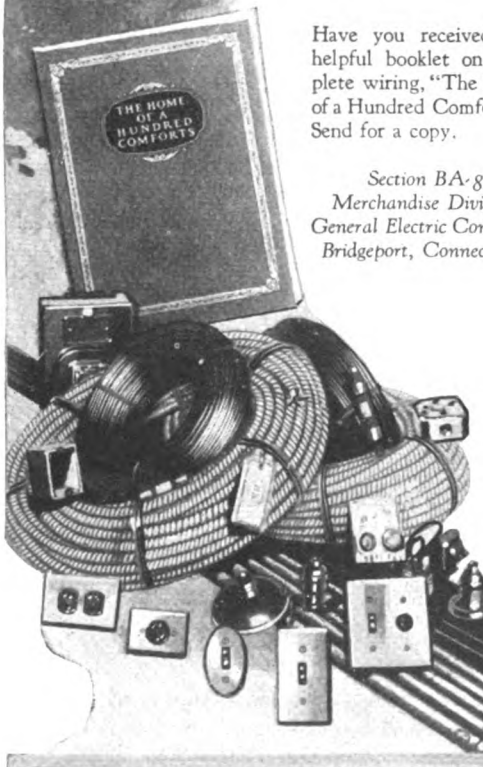
Put *quality wiring* inside the walls

Build quality inside the walls of every house. It pays! When you put a network of wiring under lath and plaster, be sure you are putting it there to stay. A General Electric wiring system built into a home not only adds to the builder's reputation for quality work—but adds greatly to the selling value of a house.

A short while ago, a wiring system meant nothing to the average house buyer. Now—due to the continued campaigning in the Saturday Evening Post—a G-E wiring system means *quality* to him, and the few dollars of possible extra cost involved in installing a G-E system throughout gives the builder a most valuable selling point.

Have you received our helpful booklet on complete wiring, "The Home of a Hundred Comforts"? Send for a copy.

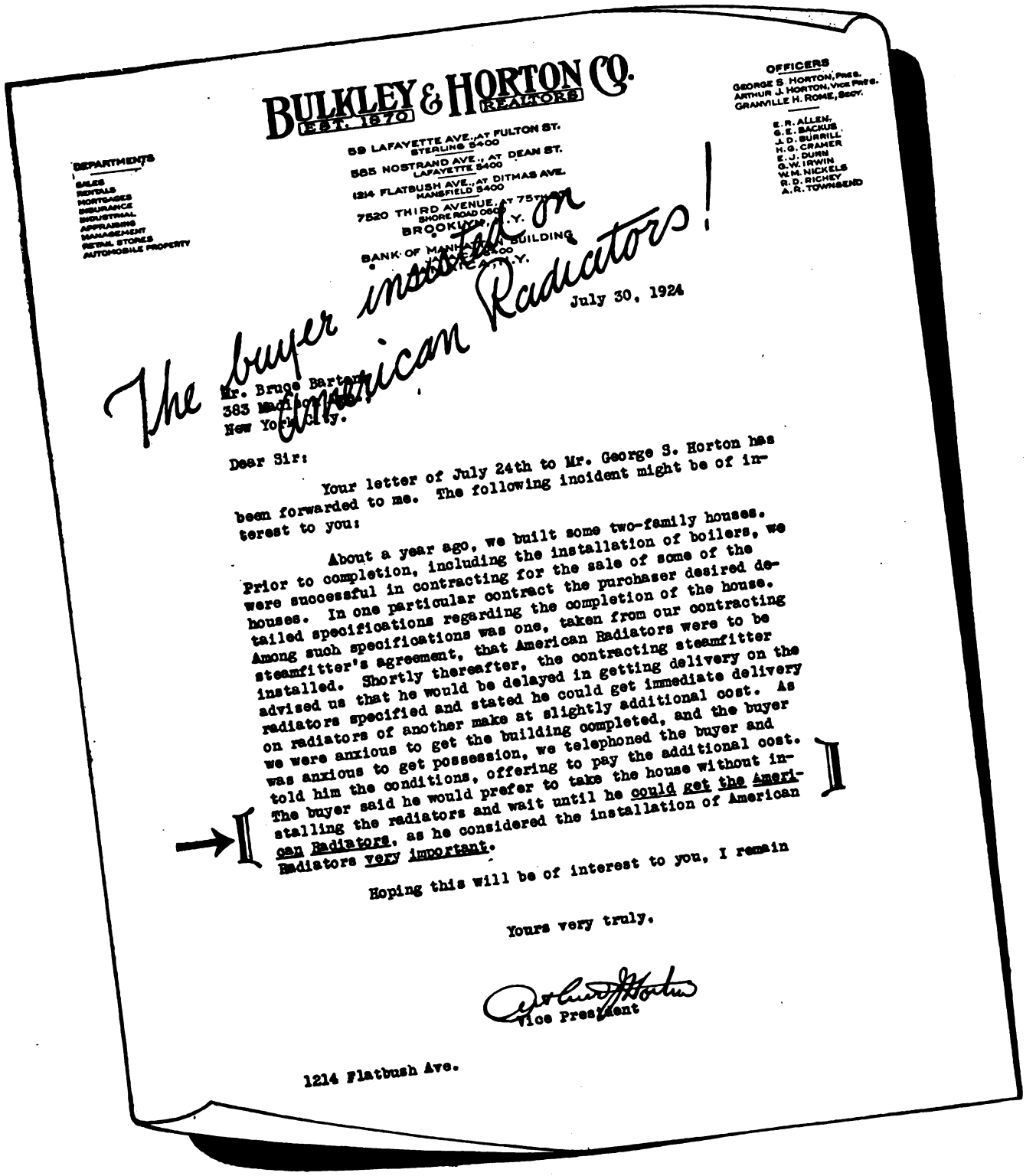
Section BA-8
Merchandise Division
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Bridgeport, Connecticut



GE WIRING SYSTEM
—for lifetime service

GENERAL ELECTRIC

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The buyer insisted on American Radiators!

July 30, 1924

Mr. Bruce Barton,
383 Madison Ave.,
New York City.

Dear Sir:

Your letter of July 24th to Mr. George S. Horton has been forwarded to me. The following incident might be of interest to you:

About a year ago, we built some two-family houses. Prior to completion, including the installation of boilers, we were successful in contracting for the sale of some of the houses. In one particular contract the purchaser desired detailed specifications regarding the completion of the house. Among such specifications was one, taken from our contracting steamfitter's agreement, that American Radiators were to be installed. Shortly thereafter, the contracting steamfitter advised us that he would be delayed in getting delivery on the radiators specified and stated he could get immediate delivery on radiators of another make at slightly additional cost. As we were anxious to get the building completed, and the buyer was anxious to get possession, we telephoned the buyer and told him the conditions, offering to pay the additional cost. The buyer said he would prefer to take the house without installing the radiators and wait until he could get the American Radiators, as he considered the installation of American Radiators very important.

Hoping this will be of interest to you, I remain

Yours very truly,

Arthur J. Horton
Vice President

1214 Flatbush Ave.

IDEAL BOILERS and American Radiators *are salesmen;* still another evidence that homes equipped with them are in greater demand.

AMERICAN RADIATOR COMPANY

Dept. T 188 1807 Elmwood Avenue, Buffalo, N.Y. *Sales Offices in all principal cities*

IDEAL BOILERS AND AMERICAN RADIATORS FOR EVERY HEATING NEED



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zinc

A roof is exposed to the same conditions as eaves-troughs, gutters and conductor pipes. It, too, must carry off the beating rain, resist the scorching sun and bear up under heavy snow.

It is logical to conclude that Horse Head Zinc—the unexcelled material for eaves-troughs, gutters and conductor pipes—is also unexcelled for standing seam roofing. Standing Seam Horse Head Zinc Roofing will not leak, it cannot rust. It will last a lifetime—and it grows more beautiful with age.

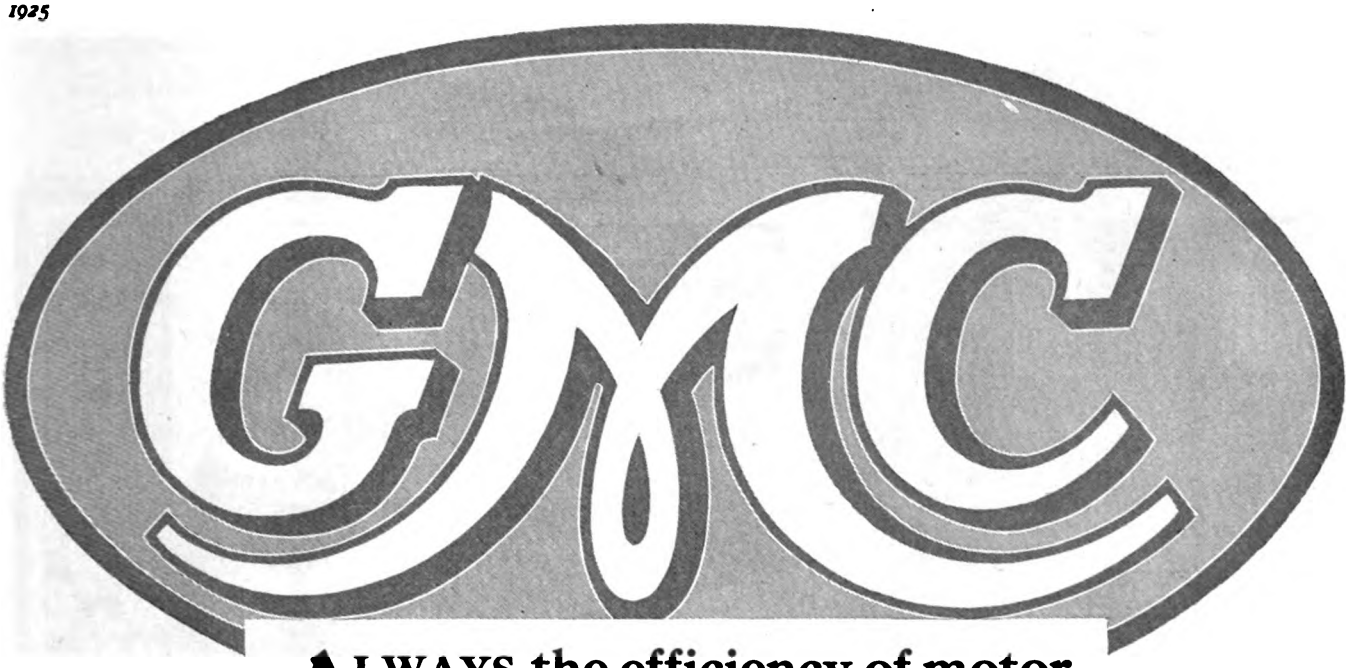
Standing Seam Horse Head Zinc Roofing is easy to lay. It is shipped in casks complete with nails, Zinc for clips and full instructions.

The New Jersey Zinc Company

Established 1848
Products Distributed by
The New Jersey Zinc Sales Company
160 Front Street, New York City
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ALWAYS, the efficiency of motor truck transportation must be measured in ton miles per dollar. So measured, the constant advancements and improvements in the structure of General Motors Trucks show clearly their immense value to the haulage buyers of America. From the beginning of the truck industry, General Motors Truck Company has required GMC Trucks to show a consistent increase in the value of the service they perform, and a steady decrease in the cost of performing it.

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Division of General Motors Corporation

General Motors Trucks

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Use this Coupon

Increase the Value of the Home

A few little touches of modern convenience and beauty will transform a commonplace house into a most valuable and attractive home. Clothes closets, for example, can easily be made roomy and wonderfully convenient at trifling cost through the installation of Knape & Vogt fixtures.

Our folder "Beautiful Clothes Closets" is truly a mine of closet information for the builder. It shows exactly how to save space, provide beautiful, convenient closet arrangements, and strengthen your reputation for resourceful capable work. Send the coupon today for this practical manual on modern clothes closets.

KNAPE & VOGT MFG. CO., Grand Rapids, Mich.

Please send me your Free booklet, "Beautiful Clothes Closets," and your Free blue print folder of closet plans.

( ) Architect ( ) Contractor ( ) Builder

Name.....

Address.....

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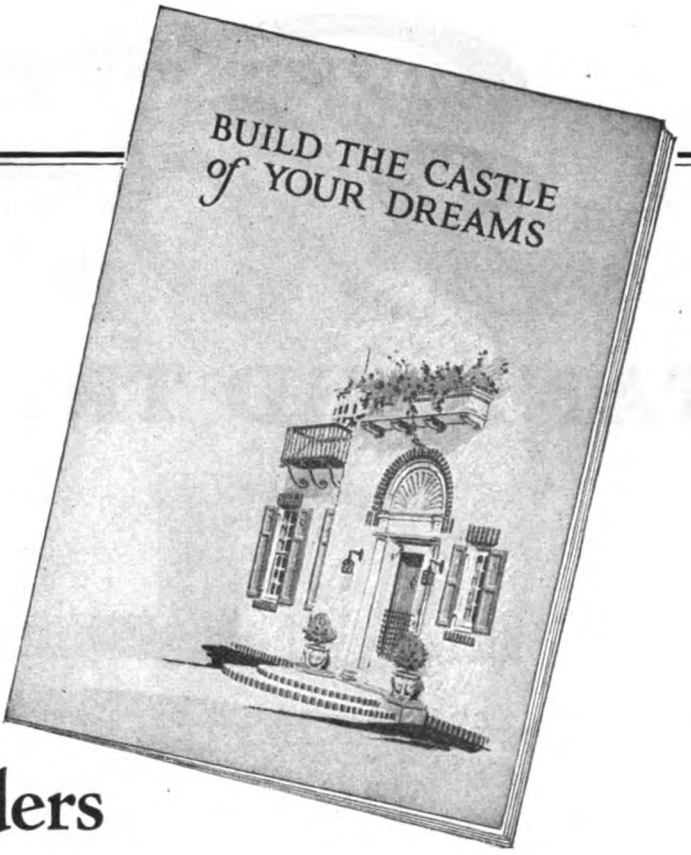
GRAND RAPIDS, MICHIGAN

Knape & Vogt Clothes Closet Fixtures are sold in hardware stores everywhere, but if you are unable to find your local dealer, order from the factory direct.

PRICES

14 inch	$4.00	22 inch	$5.25
16 inch	4.30	24 inch	5.50
18 inch	4.60	26 inch	5.80
20 inch	4.90	28 inch	6.10

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Thousands of home builders are receiving this book

THIS book will help to make prospective builders realize that a good contractor will save them many a dollar. It tells them that a good contractor puts economy intc construction work so as to bring permanent satisfaction to the owner. It says that a good contractor will save his client money.

This book is being advertised in The Saturday Evening Post, Literary Digest and other publications totaling about seven and one-half million circulation. It is also being distributed to thousands of prospective builders. Everything possible is being done to make this help you build your business.

It is part of a complete plan. Write to us for details or ask to have a salesman call and explain.

LEHIGH PORTLAND CEMENT COMPANY

ALLENTOWN, PA.
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LEHIGH CEMENT

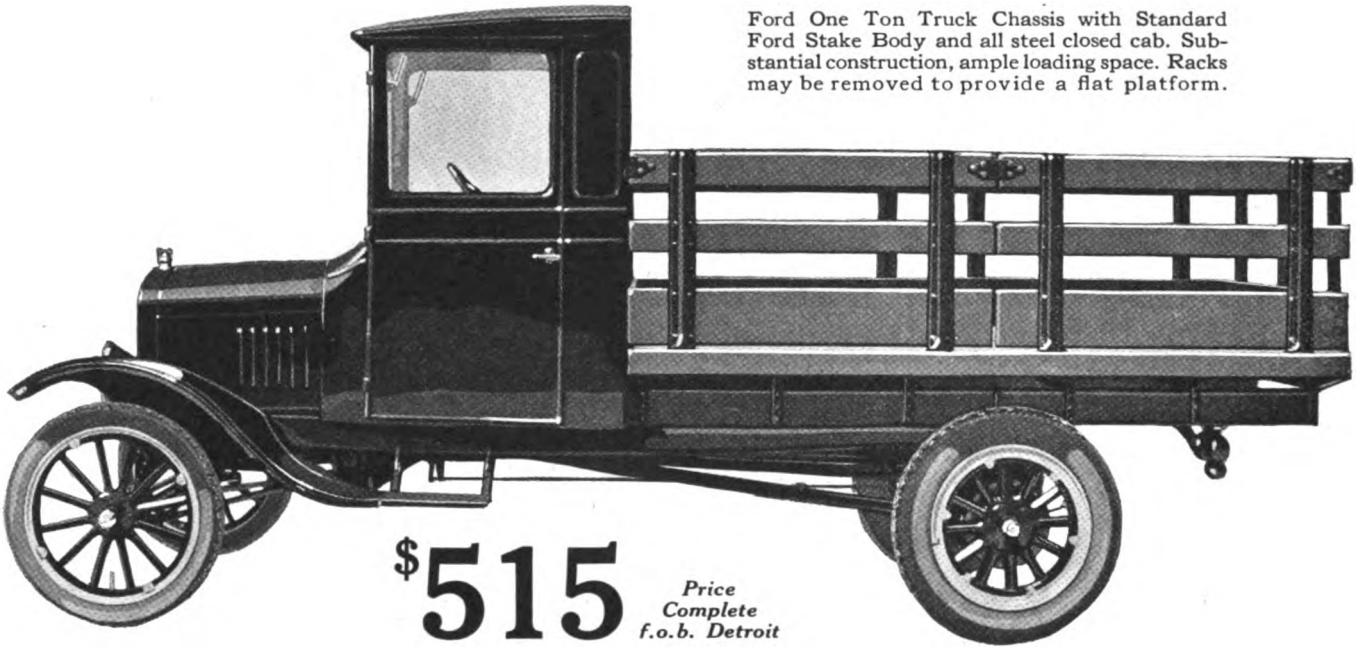
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Ford

STANDARD TRUCK BODIES



Ford One Ton Truck Chassis with Standard Ford Stake Body and all steel closed cab. Substantial construction, ample loading space. Racks may be removed to provide a flat platform.

$515 *Price Complete f.o.b. Detroit*

Quality, volume, and standardization—fundamentals which have brought success in Ford manufacture—are carried out in the production of Ford truck bodies.

These bodies are scientifically designed and well constructed. They offer the maximum carrying space consistent with one ton trucks. The trucks, equipped with standard bodies, may be purchased as complete units, or the bodies may be bought separately to replace other bodies in service that are inadequate.

Sold by Authorized Ford Dealers

All prices f. o. b. Detroit

Ford Motor Company
Detroit

Transportation and Service Combined

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"Chamberlin-Equipped" Stands For Physical Comfort in the Home

With his keen sense of values, the average American home-buyer is becoming increasingly critical of those factors bearing on home comfort and maintenance.

He seeks a residence that may be comfortably heated during the long winter months without excessive outlay for fuel.

Judged either by first cost or in terms of customer satisfaction, Chamberlin Metal Weather Strips are a sound investment for the builder. Only in Chamberlin does he obtain a weather strip that is guaranteed by the manufacturer to last the life of the building.

CHAMBERLIN METAL WEATHER STRIPS
SINCE 1893-THE STANDARD

The "Chamberlin-Equipped" sign on a completed home has a double significance to prospective buyers.

To the man of the house it means uniform, healthful temperatures at a saving of from 25% to 50% in fuel bills. To women, it means adequate protection for costly decorations and furnishings against the ravages of rain, soot and dust.

By including Chamberlin Metal Weather Strips in their construction program, realtors and builders make their properties more easily salable, and add to their reputation as builders of cheerful, comfortable homes.

ALBERT C. ABBOTT RESIDENCE
New Orleans, La.

"I had my house equipped with your Metal Weather Strips about two years ago and am well pleased with the results; they keep out cold in winter, and dust in summer, I would consider my home incomplete without them.

(Signed) ALBERT C. ABBOTT
2311 Octavia St.





GEORGE W. CORNER, JR. RESIDENCE
Baltimore, Md.

"When I built my home in 1905, I had the first and second floors weatherstripped by Chamberlin. After twenty years, I find that they are in good condition and working as effectively as when first put in.

About six months ago I had you put your weatherstripping on my third floor (which was not done when the house was built) and the results obtained thereby are such that I regret not having had it done twenty years ago.

(Signed) GEORGE W. CORNER, JR., *Vice-President*
Rouse, Hempstone & Co. Inc.

ALBERT MACKIE RESIDENCE
New Orleans, La.

"After installing Chamberlin Metal Weather Strips throughout my residence, I find the greatest difference in the saving of fuel, in the uniformity of temperature, and more particularly in the protection afforded against high winds that heretofore permeated my home with dust.

(Signed) ALBERT MACKIE
4104 St. Charles St.



We invite realtors, builders and contractors to make free use of our nation-wide sales and service organization

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This book of details and specifications has been pronounced the most complete of its kind ever issued. Mail coupon for copy.

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METAL WEATHER STRIP CO., INC.
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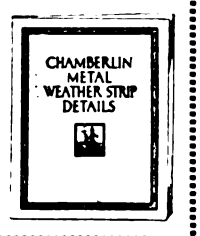
Chamberlin Metal Weather Strip Co.
Detroit, Michigan

Please send free copy of your new Detail Book. Also copy of illustrated booklet to show my clients.

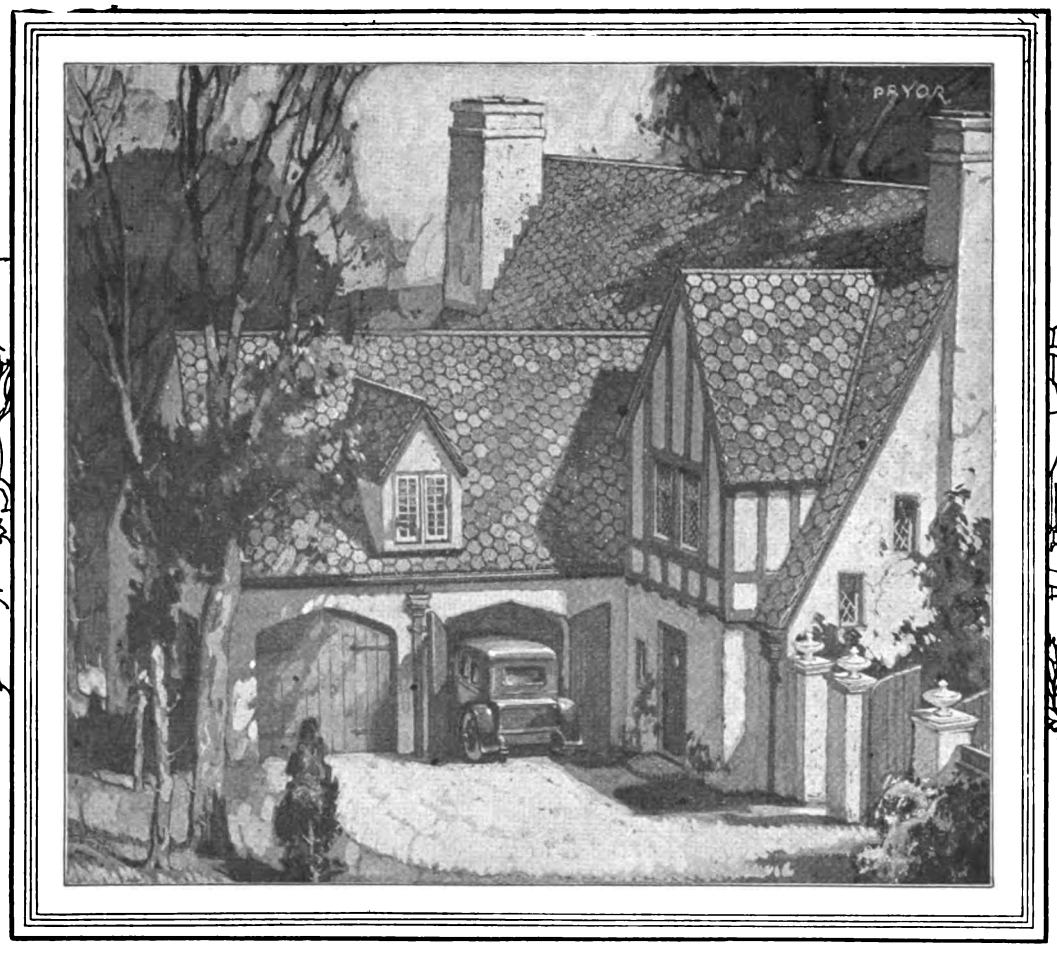
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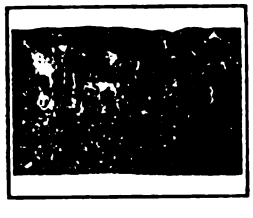
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The Magic Touch of Preston Shingles



MICROSCOPIC ENLARGEMENT

The wearing qualities of Preston Shingles are dependent not only on the quality, but also on the quantity of asphalt which each shingle contains. If you examine the edge of a Preston Shingle you will notice that it is practically a solid body of asphalt. This feature of Preston Shingles accounts for their remarkable wearing qualities.

LET us send you a fascinating book which shows in colors how Preston Shingles can transform the appearance of a house and make it distinctive.

The soft, mellow tints due to the natural colors of the surfacing harmonize with any type of architecture, whether it be a mansion costing many thousands or a simple cottage.

Preston Shingles are made in three thicknesses: Heavy Standard, Extra-Heavy and Massive. The Massive is much thicker than any other slate-coated asphalt shingle on the market, being approximately one-third thicker than a Standard No. 1 slate shingle. This thickness not only adds to the life but also to the appearance of a Preston Roof. In addition to the Sunset blend, Preston Shingles are made in three solid colors: Red, blue-black and green.

Write us to-day for the book, "The Magic Touch of Preston Shingles."

KEYSTONE ROOFING MANUFACTURING COMPANY
Dept. C-8, York, Pennsylvania

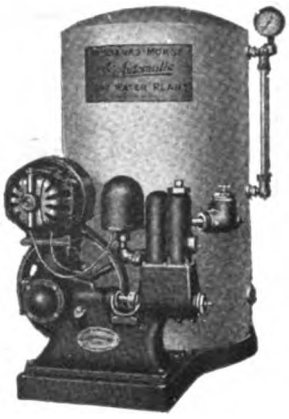
Preston ROOFING

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FAIRBANKS-MORSE HOME WATER PLANTS

It has erased city limits

—this automatic home water plant



200 gallons per hour electric plant.
"It's Automatic"

PRICES

120 gallons per hour capacity pump, 60-cycle motor, 8 gallon galvanized tank, complete, $84.75 list.

200 gallons per hour capacity pump, 60-cycle motor, 35 gallon galvanized tank, complete, $123.00 list.

Above prices are cash f.o.b. factory. Also larger sizes for engine or electric drive, correspondingly low priced.

No longer are the ends of the city water mains considered the end of water under pressure. Thousands of Fairbanks-Morse Home Water Plants are proving that any home can have the convenience of running water in bathroom, kitchen, laundry, garage, barn—any of the places where water under pressure at the turn of a faucet means greater cleanliness, less drudgery, better sanitation and better health for the whole family.



And from every standpoint the Fairbanks-Morse Home Water Plant is proving the ideal plant for homes out beyond the water mains. Backed by the excellent reputation of Fairbanks, Morse & Co., gained in manufacturing mechanical equipment of known reliability for the past half-entury, Fairbanks-Morse Home Water Plants are giving owners everywhere a new conception of carefree, truly automatic operation. The low prices speak for themselves—prices that are made possible by enormous production and consequent reduction of manufacturing costs.



There is a type and size for every need—electric and engine driven plants for drawing water from any source—cistern, lake, stream, spring, shallow well or deep well. Capacities range from 120 to 5000 gallons per hour.

Let us send you our latest literature, including 32-page Home Water Service Booklet, which is of special interest to architects and builders.

FAIRBANKS, MORSE & CO.

Manufacturers ***Chicago, U. S. A.***

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Branches and Service Stations covering every State in the Union.

PIN THIS TO YOUR LETTERHEAD

FAIRBANKS, MORSE & CO., Dept. N-8,
900 S. Wabash Ave., Chicago, Ill.

Send free Home Water Service Book and complete details of Fairbanks-Morse Home Water Plants. My source of supply is—

☐ Shallow Well ☐ Deep Well ☐ Cistern
☐ Lake ☐ Stream ☐ Spring

Name .....
Address .....
City ..... State ...

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A Combination Bath-Tub

—PATENTED—

One size only, for all size people

Regular Bath, Seat Bath, Shower Bath, Foot Bath, and Child's Bath, all in one-piece

Made of Semi-Vitreous Porcelain Ware

and

Enameled Iron Ware



Plate 30 E

Semi-Vitreous Porcelain Ware, 44x30 inches to tile in right or left hand corner, or in recess. Glazed white all sides. Only one size made.

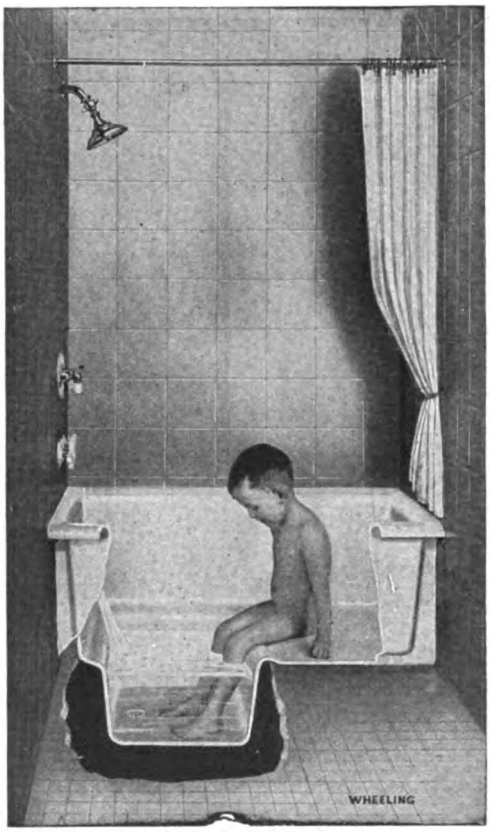


Plate 10 E

Enameled Iron Ware, 44 x 30 inches to tile in recess only. Enameled white front. Waste in foot section either right or left hand end. Only one size made.

Testimonials

Mr. T. H. Kelley, 158 E. 188th St., New York City, says:

"I had installed in my house several months ago, one of your Combination Bath Tubs fitted complete with shower and curtain, and I cannot say too much in recommending this fixture and am glad I decided on this new type of tub, as it gives the bathroom features that other pattern tubs do not have.

"I am a man weighing two hundred pounds and the tubs have ample room for one of my size to properly bathe.

"You are at liberty to use this letter in any way to advance the use of this fixture, as I cheerfully recommend this tub to anyone, and if I were to equip another bathroom for my own use, or for sale, I would use this Combination Tub."

Dr. Herman N. Bundesen, 7414 Oglesby Ave., Chicago, Ill., installed one of these tubs in his new residence a year ago, and remarks as follows:

"It is the best fixture I ever saw, and I would not be without it for anything. It is most economical in the use of hot water, and this is a decided advantage where instantaneous gas water heaters are used. Furthermore, it is an ideal tub where there are children, as it can be used to great advantage as a foot bath when the children come in dirty from playing. The shower feature is also an advantage which I greatly enjoy. In fact, this tub is most acceptable in every way, and I most thoroughly recommend this fixture."

Mrs. Bundesen is equally as enthusiastic as the Doctor, and states:—

"It is a wonderful bath."

Sold through jobbers of Plumbing Supplies
Write us for descriptive circular

Wheeling Sanitary Mfg. Co.

Wheeling, W. Va.

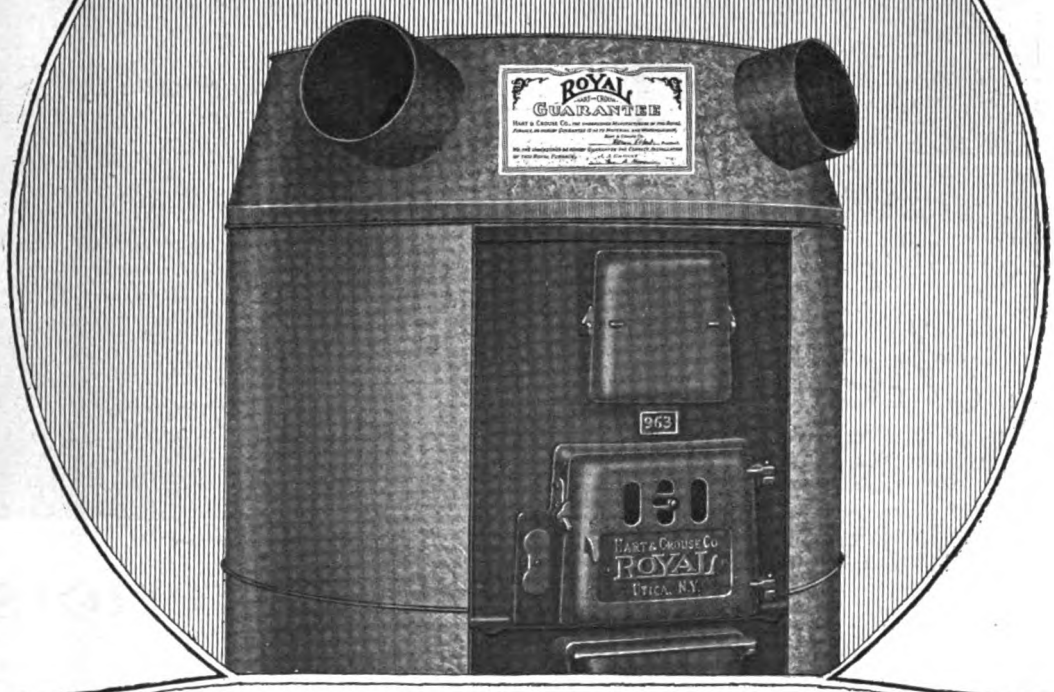
Vitreous China-Closet, Bowls and Flush Tanks of all kinds.
Semi-Vitreous Porcelain Baths, Sinks, Lavatories, Drinking Fountains, Urinal Stalls, etc.
Enameled Iron—Baths on feet and on base.

Branch Office and Show Room: 315 Wrigley Building, Chicago, Illinois

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ROYAL

—HART AND CROUSE—



GUARANTEED—at no higher cost!

WHY does the prospective owner go down and look at the cellar?

You know—
He knows—
ROYAL Guaranteed Furnaces

will help sell your houses.
Send for the name and address of the ROYAL CERTIFIED DEALER in your locality.
He is ready to install Guaranteed Furnaces at no higher cost!



Dealers Everywhere!

HART & CROUSE COMPANY
UTICA, N. Y.

BRANCH OFFICES

Boston	*Detroit	*Philadelphia
*Chicago	Grand Rapids	Pittsburgh
Cincinnati	Milwaukee	*St. Louis
Cleveland	*New York	*Utica

*Warehouse in connection

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AMERICAN WINDOW GLASS CO.
"the best glass"
PITTSBURGH, PA.

"Let in the Sunlight"

for Exteriors

EVERYBODY admires the beauty of the dwelling with an abundance of large windows. Home hunters are keen for plenty of light in house or apartment. When planning a new home or remodelling the old make sure that you have made provision for a generous supply of windows and then specify "The BEST Glass," that which is the accepted U. S. Standard, the glass made by the American Window Glass Company.

"The BEST Glass" gives clear, undistorted vision, lustrous beauty, more light on cloudy days, also strength commensurate with economy. Our new method of flattening imparts a perfectly smooth surface to the glass without destroying the brilliant lustre obtained in the drawing process. It is graded "AA," "A" and "B" like other glass, domestic and foreign, but each grade is superior to the corresponding grade of ordinary glass.

ASK FOR "THE BEST GLASS" BY NAME,
AND SEE THAT YOU GET THE GENUINE

AMERICAN WINDOW GLASS CO.

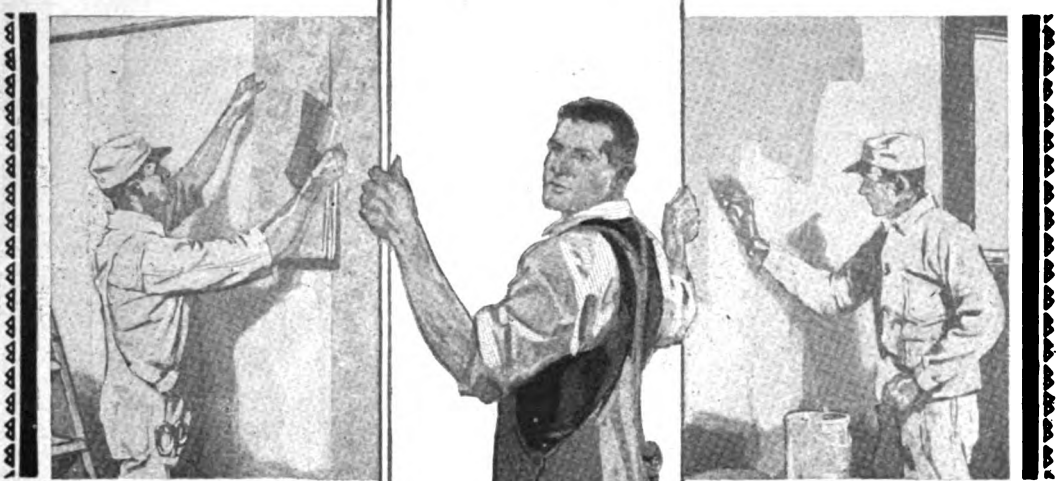
The BEST Glass — *World's Largest Producer of Window Glass* — The BEST Glass

GENERAL OFFICES: PITTSBURGH, PA. BRANCHES IN PRINCIPAL CITIES

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BEAVER BESTWALL

THE SUPERIOR PLASTER WALL BOARD



For Finer Results—

Look for This Distinctive Cream Colored Surface— It Insures Lasting Beauty

Don't make a mistake when you buy plaster wall board. Know positively that you are getting the best quality your money will buy. *Watch the color.* Beaver Bestwall is the only plaster wall board with the distinctive cream colored surface.

One important advantage of Beaver Bestwall is the superior and permanent beauty of decoration it makes possible. Its creamy fibre surfacing is specially calendered and primed. It saves dollars per room in painting costs. It takes paint or paper more artistically and allows of easy redecoration.

And Beaver Bestwall further contributes to finer and more lasting results. It is stronger by actual test. Severe blows will not break it. It will never warp, chip, crack or crumble. Jars will not loosen it. Moisture will not affect it. *It will not burn.* Approved by National Board of Fire Underwriters.

Bestwall comes in square or beveled edge panels, three-eighths of an inch thick and four feet wide by six to ten feet long. It is quickly nailed to studs and joists, or to old wall material. When the joints are filled with plaster, it presents smooth even walls and ceilings, ready for any type of decoration.

BEAVER PRODUCTS

for WALLS

Beaver Fibre Wall Board
Beaver Tile Board
Beaver Bestwall
Beaver Gypsum Lath
Beaver American Plaster
Beaver Gypsum Block
Beaver Architectural and Industrial Varnishes and Enamels

for ROOFS

Slate-surfaced Shingles and Slabs to meet every requirement of color and design
Special Re-roofing Shingles
Slate- and Smooth-surfaced Roll Roofing, in weights and finishes for every use
Built-to-order Roofs
Roof Paints and Cement

Results—

Test It for Strength, Durability, and Resistance to Fire

Take a piece of genuine Beaver Bestwall. Try to break it—it is made of the highest quality of Gypsum Rock Plaster, correctly set for greatest strength. Its tough fibre surfacings give added rigidity to this stronger board. See how smoothly it takes paint or paper. Turn a blow torch upon it. Soak it in water, and note that it does not swell nor is it affected in any way. *Know* that Beaver Bestwall is the quality plaster wall board. Mail the coupon for free sample today. Test it and compare!

Mail this coupon

The Beaver Products Co., Inc.
Dept. N-8
Buffalo, N.Y.
(or) Thorold, Canada
(or) The Beaver Board Co., Ltd., 133-136 High Holborn, London, England

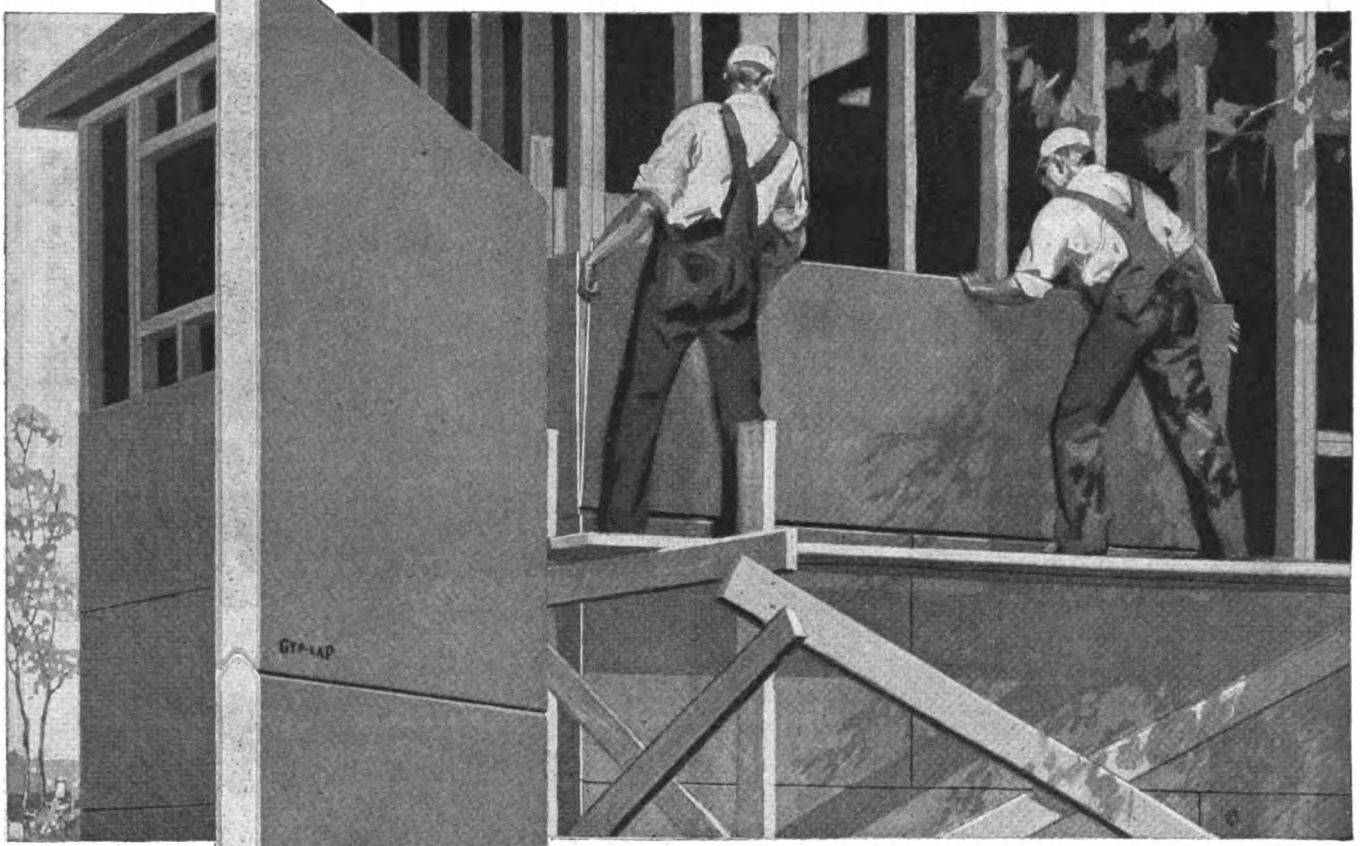
Gentlemen: Please send me a sample and literature describing your Beaver Bestwall plaster wall board. I am also interested in the other Beaver Products I have listed below

Name .....
Address .....
City ..... State .....

This is the type of NATIONAL ADVERTISING *that is telling the public about* BEAVER BESTWALL, *the superior plaster board*

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Now a New and Better Sheathing



Patented interlocking edges assure a solid, wind-tight joint. Note the double thickness of building paper provided in Gyp-Lap construction

Before you put up a frame, stucco or brick veneer building be sure to get acquainted with Gyp-Lap—the new and better gypsum sheathing. These are among the marked advantages it provides over ordinary sheathing methods:

Fireproof: Gyp-Lap being made of gypsum, cannot burn, ignite or transmit fire.

Insulating: Between its surfaces of moisture-proof fibre Gyp-Lap has a core of gypsum that offers myriads of minute air cells [the best insulator known], resisting the passage of heat or cold, and the interlocking edges of Gyp-Lap make a wind-tight joint.

Strong: Made in large sheets, a full half-inch thick, Gyp-Lap adds extra rigidity to your building. It will not warp or pull away from the supports. Braces the entire structure. Supplies the *strongest* structural insulation known.

Easier to erect: Owing to the rapidity with which the large sheets can be handled and cut, Gyp-Lap goes up in much less time than old-style sheathing.

Turns back water: With its water-resisting surface Gyp-Lap is a perfect backing for stucco construction.

Most economical: It comes factory-cast, all ready to be nailed to the framework. It is complete, requiring no building paper; costs no more than lumber and effects a great saving in labor costs.

Your dealer in Sheetrock, lumber and *builders'* supplies sells Gyp-Lap or can get it for you promptly from our nearest mill. Mail coupon for detailed information on this better sheathing.

Made only by the United States Gypsum Company

UNITED STATES GYPSUM COMPANY
General Offices: Dept. 403, 205 West Monroe Street, Chicago, Illinois

MAIL THIS TODAY!

U. S. Gypsum Company
Dept. 403
205 West Monroe Street
Chicago, Illinois

Please send me folder telling about Gyp-Lap.

Name.....

Address.....

USG

GYP-LAP

TRADE MARK REGISTERED

The *FIREPROOF* Sheathing

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Use Sargent Easy Spring Locks on all the inner doors

LOCKS for inner doors require just as careful selection as those for entrance doors. Frequently builders, who are most particular about locks and hardware for front, side or rear doors, think that anything will do for the doors inside. And this is a mistake that often and expensively "comes home to roost."

Sargent Easy Spring Locks are not expensive by any means, costing but little and sometimes no more than inferior locks. But in ease of operation, in strength of construction and in permanence of service, they are worth much more.

Because of the "easy spring" arrangement, the knob and latch bolt move with a minimum of effort—a most desirable feature for continuously opened and closed inner doors.

Sargent Easy Spring Locks for interior doors are as carefully made as the well-known Sargent Easy Spring Cylinder Locks for entrance doors and other Sargent builders' fittings. Glass knobs or brass or bronze knobs and handles to go with these locks are as beautiful and in as great a variety of styles and sizes as any builder could possibly desire.



Sargent Hardware for buildings of every style and price

SARGENT & COMPANY, *Hardware Manufacturers,* 52 Water Street, New Haven, Conn.

SARGENT
Locks & Hardware

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Residence at 611 Cliveden Avenue, Germantown, Philadelphia. Architect and Builder, Mr. Don Peters, Philadelphia. Owner, Mr. F. H. Williams, Philadelphia. Kitchen equipped with Direct Action Lorain-equipped Gas Range.

Plan HAPPY Homes!

CONVENIENCE, health and happiness can be planned right into your houses by specifying the very best time-saving, labor-lightening equipment—especially for the kitchen. So much depends upon properly cooked food and smooth-running kitchen affairs that you should always specify Gas Ranges equipped with the famous Lorain (Red Wheel) Oven Heat Regulator.

The Lorain is a thermostat built into the stove. It measures and controls automatically the heat of the oven. It is the *original* oven heat regulator, invented, manufactured, sold and *guaranteed* by American Stove Co. You can always tell a Lorain-equipped Gas Range by the Red Wheel.

Each year, in over thirteen hundred schools and colleges, thousands of young women are taught to cook by the aid of the Red Wheel, and these young women will soon be buying or renting homes of their own.

In thousands upon thousands of buildings—churches, lodges, schools, apartments and houses, Lorain-equipped Gas Ranges are giving efficient, economical service, reflecting credit upon the architects and builders responsible for the installation.



Type of Direct Action Lorain-equipped Gas Range in the residence pictured above.

These famous gas stoves are equipped with the Lorain Oven Heat Regulator: Clark Jewel, Dangler, Direct Action, New Process, Quick Meal and Reliable. They are made in every approved size, style and finish.

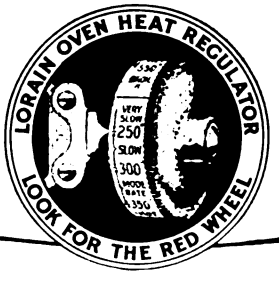
For specific data see 19th edition, Sweet's Catalog, pages 2497-2506 inclusive. Additional information sent on request.

AMERICAN STOVE COMPANY, 222 Chouteau Ave., St. Louis, Mo.

Largest Makers of Gas Ranges in the World

LORAIN OVEN HEAT REGULATOR

One easy turn of the Lorain Red Wheel gives the housewife a choice of any measured and controlled oven heat for any kind of oven cooking or baking.



Unless the Regulator has a Red Wheel it is NOT a LORAIN

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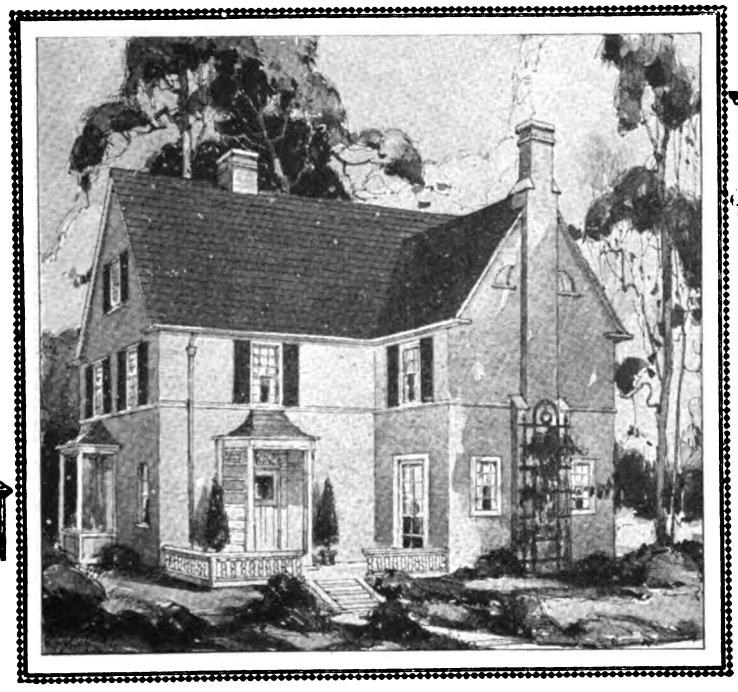
You Can Put Up With Just "Woodwork"—But *Why?*



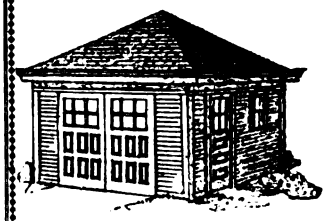
Morgan Mirror Door M888



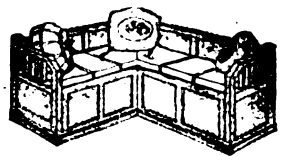
Morgan Buffet M378



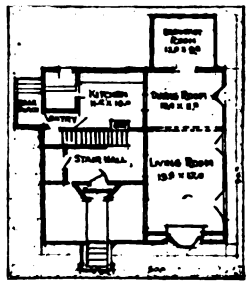
Morgan Plan Suggestion No. 18A



Morgan Garage M2160



Morgan Cosy Corner Seat M537



Main Floor Plan

The interiors of the homes you build must withstand long and intimate scrutiny.

Will you use just woodwork in these interiors? Or woodwork with a reputation — bearing a standard, nationally known name?



Morgan French Doors M831

Using Morgan woodwork benefits you in many ways.

Your client at once recognizes it as of highest quality. He has seen it advertised in national magazines for years.

Morgan prices, being guaranteed for periods of four months, protect your profits.

Our Price Supplement is mailed to you without charge and our Master Book, "Building with Assurance," comes to the attention of your clients.

The Morgan policy of standardization as to sizes, woods and designs, plus conveniently located warehouses, means prompt deliveries even in periods of unusual demand, thus saving you expensive delays.

Our perfected system of standardized manufacturing reduces production costs to a minimum and results in unusual value.



Morgan Breakfast Nook M390

Our standardized sizes enable you to speed construction.

Woodwork stamped with the name MORGAN pleases your customers better, thus helping you increase your business and profits.



There is no added cost for Morgan-Quality

As a rule the livest and most successful contractors, realizing these advantages, prefer to use Morgan woodwork.

Write for copy of our current Price Supplement. Or mail coupon for prospectus describing "Building with Assurance."



Get this 440-page Master Book on Home Building

"Building with Assurance" (Second Edition) contains the information you need to help you cut costs, save time and get more for your money.

"Building with Assurance"

Indorsed by over 15,000 *authorities.*

This great book shows page after page of homes of all types in colors—with floor plans. The home illustrated above, for example, with floor plans, will be found on page 41. In addition, you get help on room arrangement, interior decoration, floor coverings, lighting, heating, plumbing and landscaping.

Mail coupon for prospectus

"Building with Assurance" is not for general distribution. It is for earnest home lovers. Our prospectus tells all about it—shows beautiful homes in color, with floor plans. The prospectus is gladly sent to those who mail the coupon.

Address nearest office, Dept. U-8

Morgan Sash & Door Company, Chicago, Illinois
Morgan Millwork Co., Baltimore, Maryland
Morgan Company, Oshkosh, Wisconsin

Gentlemen: Please send me at once copy of your beautiful prospectus which describes "Building with Assurance"; also a copy of your current Price Supplement.

Name .....

Address .....

Town ..... State .....

Business .....

"MORGAN-QUALITY"

STANDARDIZED WOODWORK

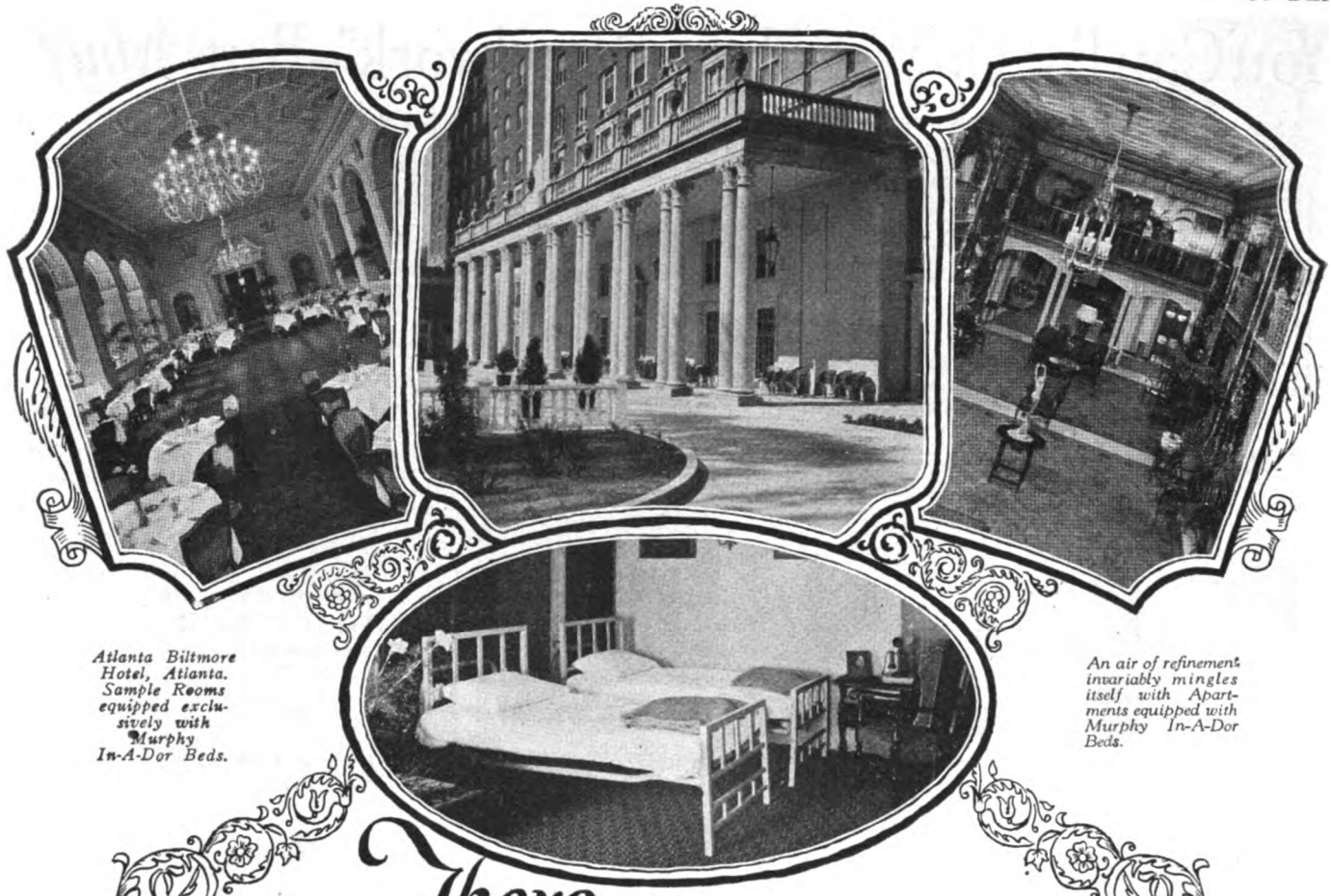
MORGAN WOODWORK ORGANIZATION

MORGAN SASH & DOOR COMPANY, Chicago, Ill.; Detroit, Mich.; Cleveland, Ohio.
MORGAN MILLWORK COMPANY, Baltimore, Md.; Jersey City, N. J.; Greensboro, N. C.
MORGAN COMPANY, Oshkosh, Wis.; New York City

MORGAN

Look for this mark on every Morgan Product

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Atlanta Biltmore Hotel, Atlanta. Sample Rooms equipped exclusively with Murphy In-A-Dor Beds.

An air of refinement invariably mingles itself with Apartments equipped with Murphy In-A-Dor Beds.

There is no Substitute for a genuine IN-A-DOR Bed

MODERN apartments and homes designed and built around the Murphy In-A-Dor Bed idea are conceded by the country's leading architects, owners and builders to be the highest development of the concealed bed principle. Its exclusively patented method of quick and easy installation, plus perfect concealment when not in use, explains its tremendous popularity. Let the experience of thousands of Murphy users be your guide—an investigation will prove their judgment sound.

The MURPHY IN-A-DOR BED

THE MURPHY DOOR BED COMPANY

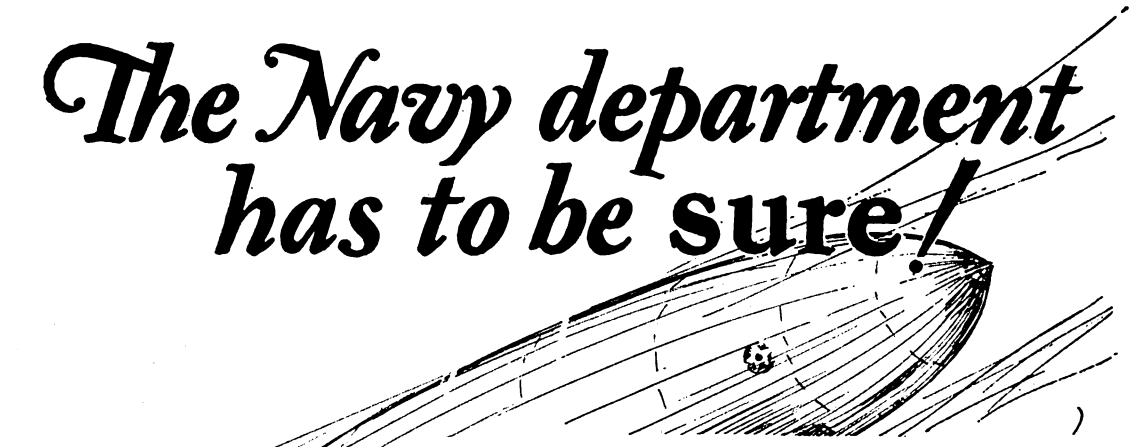
Offices in All Principal Cities

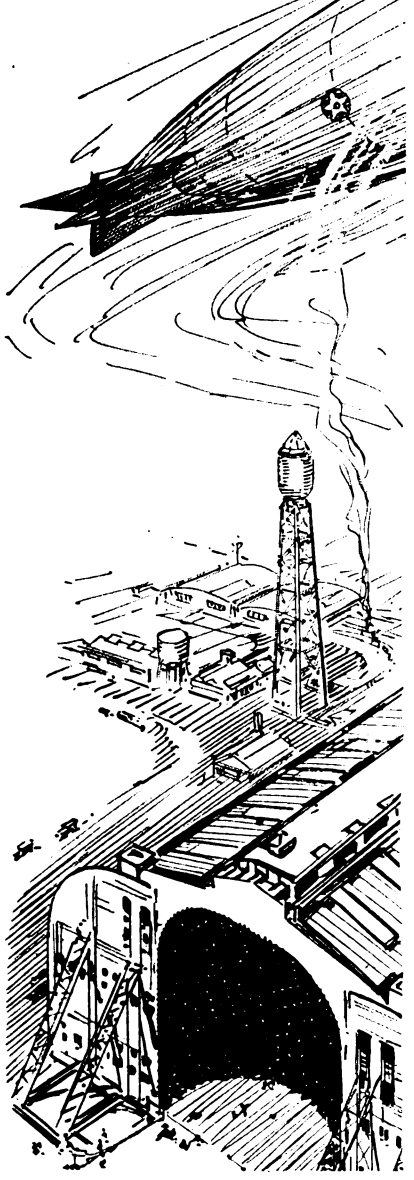
Chicago, 22 W. Monroe St
Atlanta, 204 Arcade Bldg.
Nashville, 1713 West End Ave.
Dallas, Tex. 1919 Pacific Av.
El Paso, Texas, Neff-Stiles Bldg.
New York City, 19 W. 44th St.
Detroit, 7th Fr Kresge Bldg.
San Francisco, Crocker Bldg.
Los Angeles, 1807 S Main St
St. Petersburg, Fla., 225 Second Av, S.
Montreal, Canada, 153 Peel Street
New Orleans, 319 Dryades St.
Miami, Fla., 234 Columbia Bldg.
Ottawa, Canada, 205 O'Connor St.
Cleveland, O. 1140-42 Hanna bldg.
Houston, Tex., 2301 Main St.
St. Louis, 315 N. Tenth St.
Seattle, Terminal Sales Bldg
Denver, 1534 Blake St.
Kansas City, 1114 Grand Av.

~and There is Only One IN-A-DOR Bed~"THE MURPHY"

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The Navy department has to be sure!





IN the Cape May, New Jersey, Naval Station a dirigible hangar provides a safe harbor for the giant ships of the air. All the construction materials were selected with unusual care. As an evidence of the confidence of Naval architects and engineers in the dependability of Pennsylvania Portland Cement, this cement was selected for the foundations of the buildings which comprise this remarkable air station.

The use of Pennsylvania Portland Cement is a guarantee of reliability. Not only does it exceed U. S. Government standards but in the entire process of manufacture, from the selection of the finest cement rock to the final product, every step must insure quality. You may be sure that no better cement can be made by any process or by any method.

The Pre-test

30 days or more before any Pennsylvania Portland Cement is ground for shipment, we thoroughly test the fused clinker from which cement is made. A miniature grinding mill installed in our laboratories duplicates actual process of manufacture. This makes it possible to know that the quality of Pennsylvania Portland Cement is certain *every time*. Every barrel exceeds the rigid U. S. Government standard requirements.

This reputation for quality has been the determining factor for the selection of Pennsylvania Portland Cement by architects and engineers in such important work as the New York and Brooklyn subways, the Hill to Hill bridge at Bethlehem, Pa., the Polo Grounds, the Bear Mountain Bridge, The American News Co. Building and the Approaches to the Vehicular Tunnels.

Mail the coupon for your free set of the three volume library, "More Profits in Cement." They contain valuable information for all cement users.

PENNSYLVANIA CEMENT COMPANY

Offices:

NEW YORK
BOSTON
PHILADELPHIA
BUFFALO

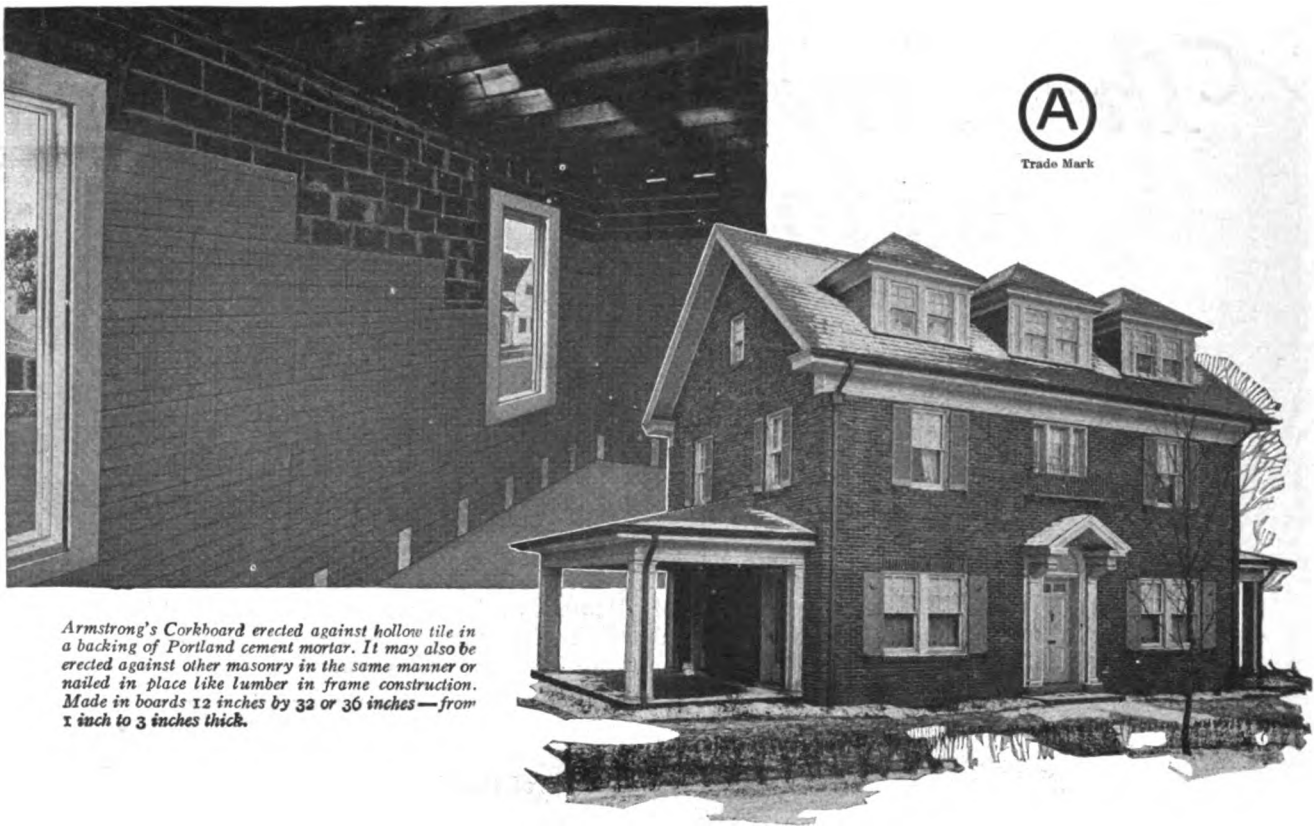
Plants: Bath, Pennsylvania
Portland Point, N. Y.

PENNSYLVANIA
PORTLAND CEMENT

PENNSYLVANIA CEMENT COMPANY
Dept. A7, 131 E. 46th St.,
New York City.
Please send me the library "More Profits in Cement"—FREE.

Name .....
Street .....
City .....
State .....

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Armstrong's Corkboard erected against hollow tile in a backing of Portland cement mortar. It may also be erected against other masonry in the same manner or nailed in place like lumber in frame construction. Made in boards 12 inches by 32 or 36 inches—from 1 inch to 3 inches thick.

Cork Lined Houses Make Satisfied Owners

A HOUSE insulated with Armstrong's Corkboard is an advertisement for its builder the year round. In summer, the lining of cork keeps *out* the sweltering heat that makes the upstairs rooms "hot as an oven." In winter it holds the furnace heat *in* where it belongs. As a result, the house is more easily, cheaply and uniformly heated and is freer from drafts than those built in the ordinary way—a constant reminder of the excellence of your work.

Armstrong's Corkboard is easily erected in any kind of building—brick, stone, concrete, frame or stucco. It is structurally strong; slow-burning and a positive fire retardant; not affected by moisture, and does not swell, shrink, mold or rot. It takes and holds plaster permanently without lath. Furthermore, Armstrong's Corkboard is not expensive and adds but little to the cost of a building.

Prospective home owners in your community are being told about Armstrong's Corkboard each month in full page advertisements in House and Garden, House Beautiful and the Saturday Evening Post, and you will have little trouble in convincing them that cork lined houses are worth more because of their many advantages. Full information and structural details will be sent on request to Armstrong Cork & Insulation Company (*Division of Armstrong Cork Company*), 197 Twenty-fourth Street, Pittsburgh, Pa. In Canada, McGill Building, Montreal, Quebec.

Branches in the Principal Cities

Armstrong's
Nonpareil
Corkboard Insulation

for Residential, Commercial and Industrial Buildings

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The Drive is On

DOWN the swift current come the Shevlin logs. Like so many sheep they are herded from the rear by the happy, powerful lumber jacks. Only instead of the shepherd's crook the jack uses a stout grappling hook. His duty is to keep the herd constantly moving in a steady procession to the mill. ¶ This is one more step in the process of bringing pine of Shevlin quality to your door.

Shevlin, Carpenter & Clarke Company

900 First National-Soo Line Bldg., Minneapolis, Minn.

SHEVLIN

LOG MARK REGISTERED

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HOW COLOR INSERT ADVERTISING PAYS

In the following letter The B. F. Nelson Mfg. Co. tells what color insert advertising in this publication has already accomplished:

"The results of the color advertising placed by your Company for us in the various building, architectural and lumber journals have exceeded by far our fondest hopes and expectations.

Since the appearance of the first issue in January, we have received inquiries from every state in the union, and inquiries also from many foreign countries; viz., Mexico, England, Canada, Spain, Australia, New Zealand, South America.

In addition to the numerous inquiries received, the advertising has been of inestimable value to our salesmen in opening new accounts. Since the first colored advertisement appeared, they have opened new accounts at Portland, Maine; Boston, Mass.; New York City; Orange, N. J.; Atlanta, Georgia; Birmingham, Alabama; Philadelphia, Pa.; Cleveland, Ohio; Toledo, Ohio; St. Mary's, Ohio; Canton, Ohio; Monroe, Michigan; Detroit, Michigan; Wichita, Kansas; Oklahoma City, and numerous other accounts of a smaller nature.

The above mentioned accounts are all car load buyers, taking anywhere from two to three car loads per month.

We feel confident that the advertising we have done is directly responsible for the wide spread interest in our product and the apparent ease in closing new accounts.

We can not recommend too heartily this form of advertising and the beautiful work prepared through your agency."

MAC MARTIN ADVERTISING AGENCY

Security Building, Minneapolis

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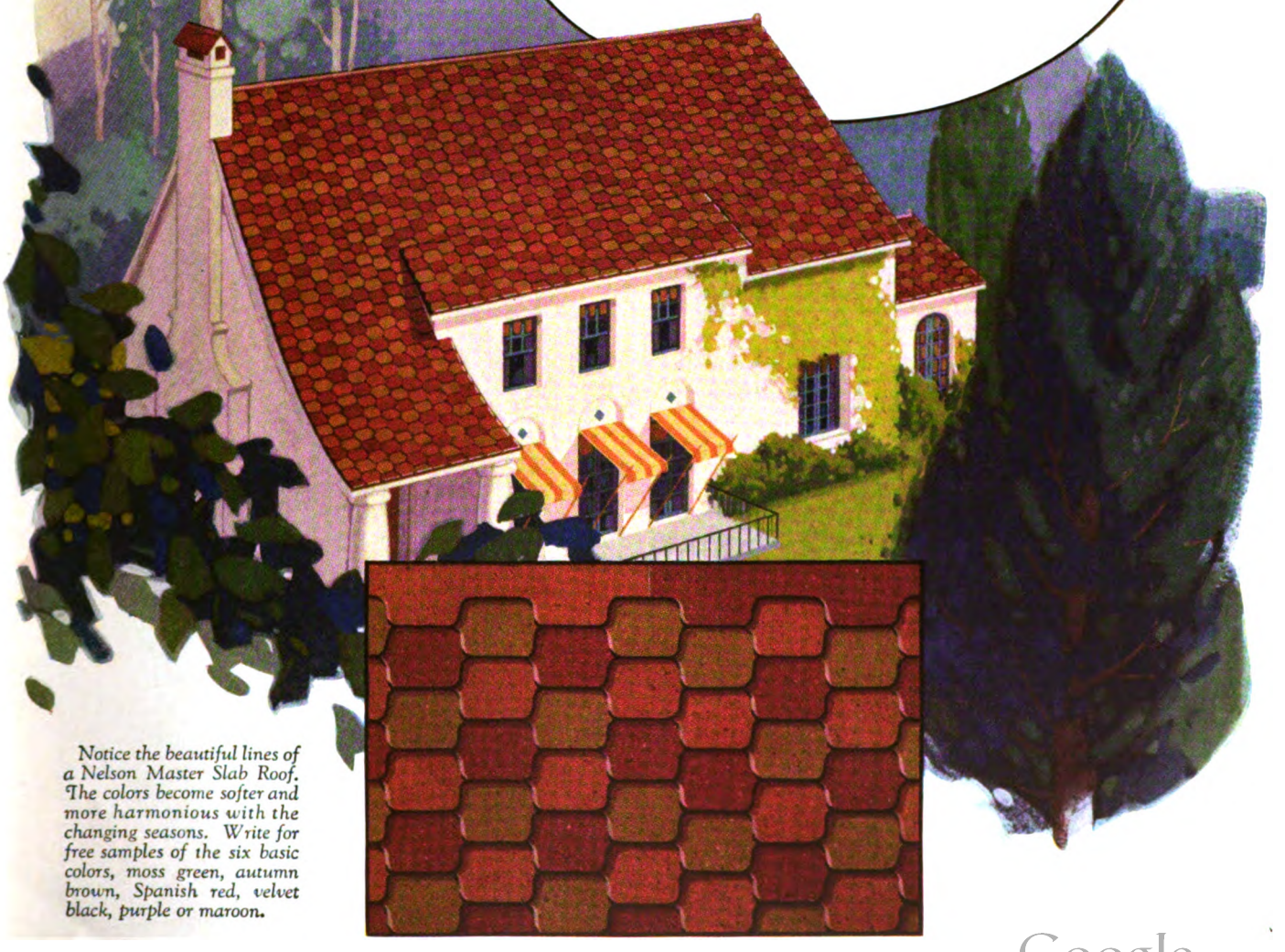
Nelson
MASTER·SLAB·ROOFS

THE beauty of the rich colors and texture of a Nelson Master Slab Roof is readily apparent. Charm and pride of ownership lie therein.

But only the passage of time reveals its durability. This is the direct and inevitable result of the expert use of high grade materials.

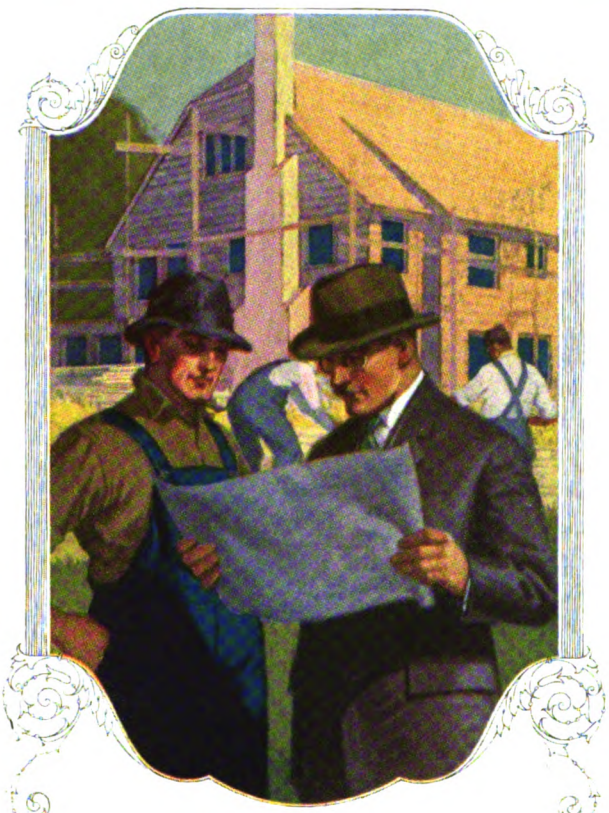
May we send you color samples and descriptive literature?

The B. F. Nelson Manufacturing Co.
Minneapolis, Minn.



Notice the beautiful lines of a Nelson Master Slab Roof. The colors become softer and more harmonious with the changing seasons. Write for free samples of the six basic colors, moss green, autumn brown, Spanish red, velvet black, purple or maroon.

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Architects prefer Andersen Frames

Architects who have studied standardization and know its elastic possibilities specify Andersen Frames. Their experience proves that there is a style of Andersen Frame adaptable to every type of home no matter what the design or the materials used in construction.

The 121 different sizes give the architect freedom of expression and an opportunity to mold these shapes to his conception of the design.

Andersen Lumber Company
Bayport, Minn.

Andersen FRAMES

The accurate construction of Andersen Frames also appeals to the architect as he knows his client will have a snug-fitting, weather tight window. The Genuine White Pine used on all exposed parts keeps this accuracy permanent.

Write for latest information on Andersen Standard Frames stating whether you are an architect, builder, dealer or prospective home owner.

WHITE PINE Andersen FRAMES

Look for this trademark—it appears on every Andersen Frame.

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His experience convinces him that SANITAS MODERN WALL COVERING makes better homes

FROM the standpoint of appearance, as a protection to the plaster, because of its durability and permanence, and as a fine surface for after-treatments, Sanitas Modern Wall Covering is a good investment, not an expense. Mr. Wightman's letter is explicit; his endorsement is drawn from his own experience; he knows.

Sanitas on the walls makes a better home—better to live in, easier to rent, and more profitable to sell. It is made on cloth, heavily coated with durable oil colors that can be wiped clean with a damp cloth. It can be applied over any flat surface (on new walls as soon as the plaster is dry) and does not crack, tear, peel, blister, or fade. It hangs easily, and, coming in 12-yard rolls *four feet wide*, permits covering large surfaces quickly.

There are styles for every room in the house: Plain Color Flat Finish, Decorative Flat Finish, Brocade and Metallic Finishes, Plain Color Enamel Finish and Decorative Enamel Finish.

EDGAR A. WIGHTMAN
Architect
BANKERS TRUST BUILDING
PHILADELPHIA

January 2, 1925.

The Standard Textile Products Co.,
321 Broadway, New York, N.Y.
Mr. C. R. Allison.

Dear Sir:-

Answering your letter of Dec. 29, 1924 please be advised that my experience with Sanitas wall covering has convinced me that it is the best covering to use on plastered surfaces, as it is sanitary, inasmuch, that it covers all small cracks and imperfections in plastering, gives a fine appearance to the interior of the building and also the best surface for painting, when same may be necessary, as all wall covering becomes badly soiled in time.

We used this material on all the walls and ceilings of the Phila. Freemasons' Hospital, including the kitchen and service portion. All corners in this building are rounded and the sanitas gives an even finish throughout.

We also used it with the same success in the Eisenlohr Home for Girls and I was pleased to recommend it for use in the Nurses' Home of the Methodist Hospital (designed by another Architect.).

The Smith Memorial Home for Boys, which I designed will be completed in about four months, with the interior walls and ceilings covered with sanitas, which can easily be cleaned.

Should you desire any further information please advise me.

Yours very truly,
Edgar A. Wightman

EAW/G)

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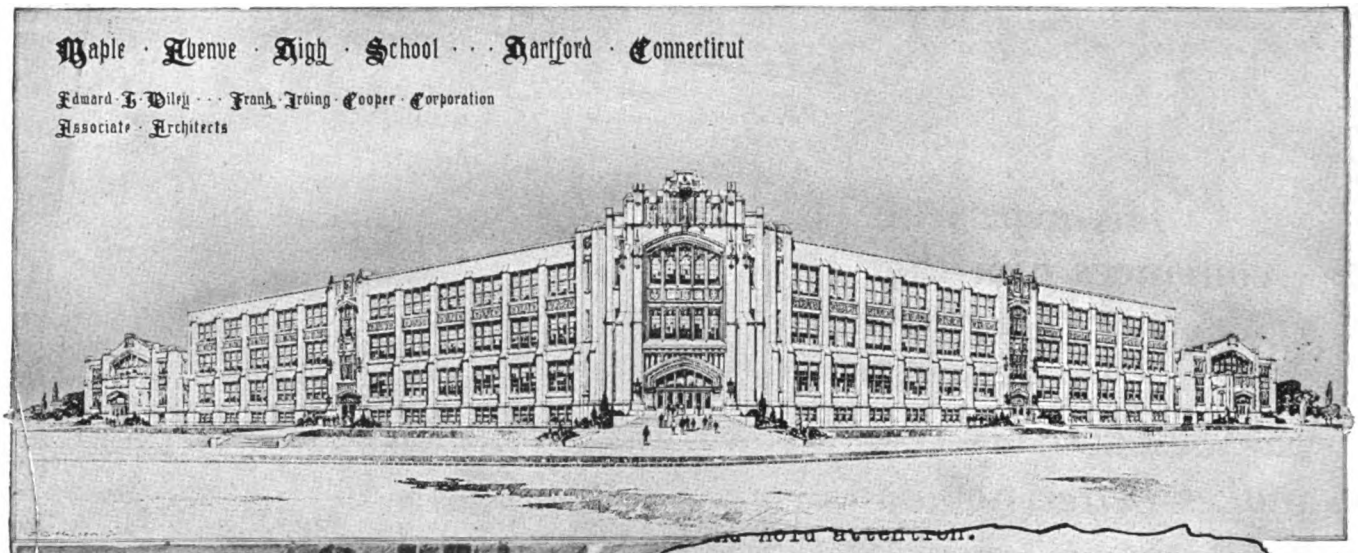
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Selected for another $1,800,000 school

When the Frank Irving Cooper Corporation, architects, designed the Weaver High School, Hartford, Conn., they assured maximum protection against slipping and tripping accidents by specifying Alundum Aggregates for the finish cement of treads and platforms of all inside stairways and for the terrazzo of the main entrance vestibule. The paragraph reproduced above, from an unsolicited letter received from these architects, indicates clearly the satisfactory service these Norton Floor products have given and why they are being used in the new Bulkeley (Maple Avenue) School—another $1,800,000 structure.

All types of Norton Floors are made permanently slip-proof, durable and quiet by the bonded electric furnace abrasive trademarked "Alundum"—long used in the well-known Norton Grinding Wheels.

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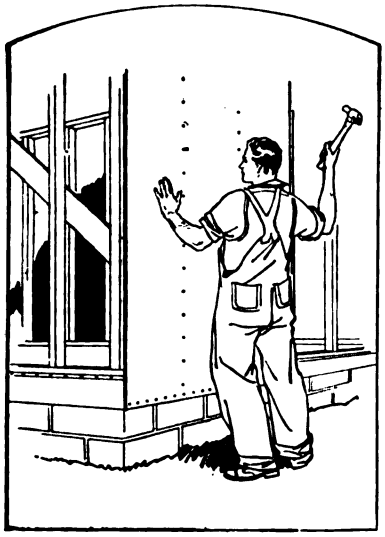
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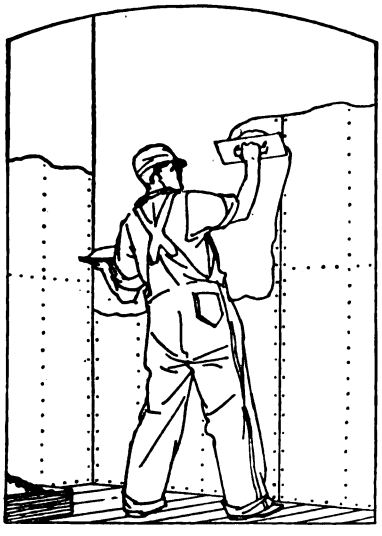
Alundum Tiles, Treads and Aggregates

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Celotex is applied directly to studding in place of wood sheathing. Test after test by unquestioned authorities proves that a wall so sheathed with Celotex is many times stronger than one ordinarily sheathed with wood lumber



Standard gypsum or wood fibre plaster is applied directly to the surface of Celotex

Celotex Insulating Lumber stops avoidable heat waste—yet adds nothing to building cost

Enough heat is *wasted* in the ordinary home to keep two more of the same size comfortable—two-thirds of the heat that comes from the furnace.

One third of this heat naturally escapes through windows and doors.

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Celotex stops the unnecessary heat waste

Celotex, the world's first *Insulating Lumber,* stops unnecessary heat waste without adding to building cost.

Celotex provides *heat insulation.* It has been used in thousands of railroad refrigerator cars to keep heat *in* during winter and *out* during summer. In the walls of a house it serves the same purpose—it checks heat leakage.

How it saves

Used as sheathing, on walls and roof, Celotex replaces wood lumber. It is actually a part of the building—stronger in wall sections than wood lumber itself. And used in this way, Celotex saves the cost of lumber and that of an extra insulating material. It means one application cost, instead of two.

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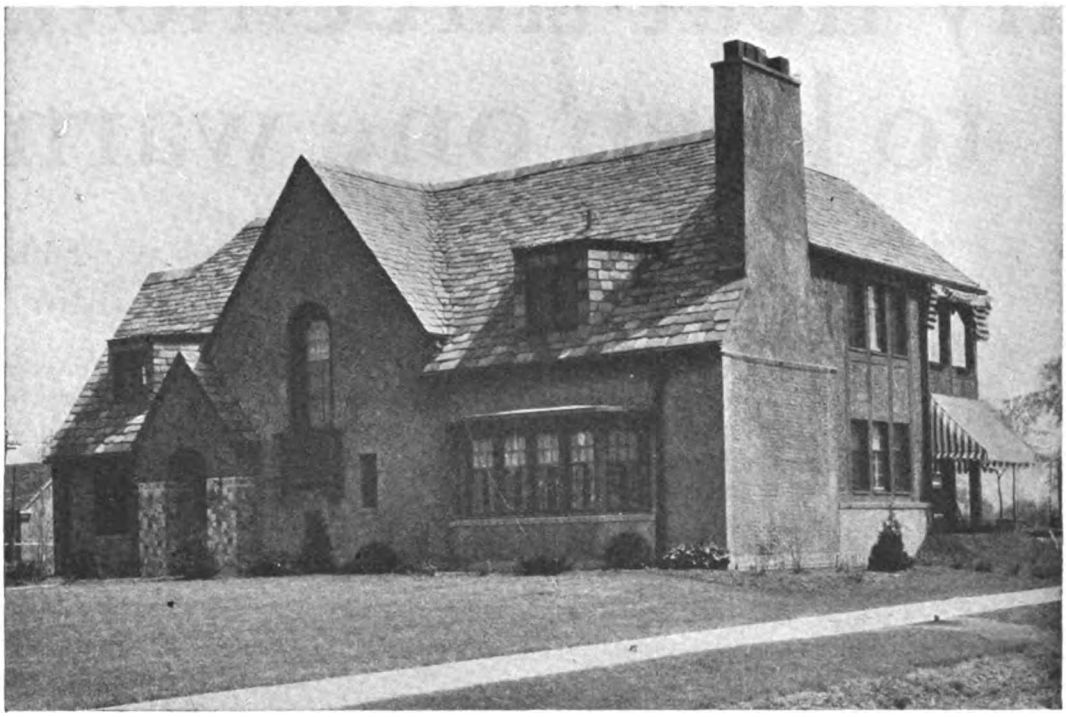
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Let us quote price on this new entrance shown in the remodeled house above.

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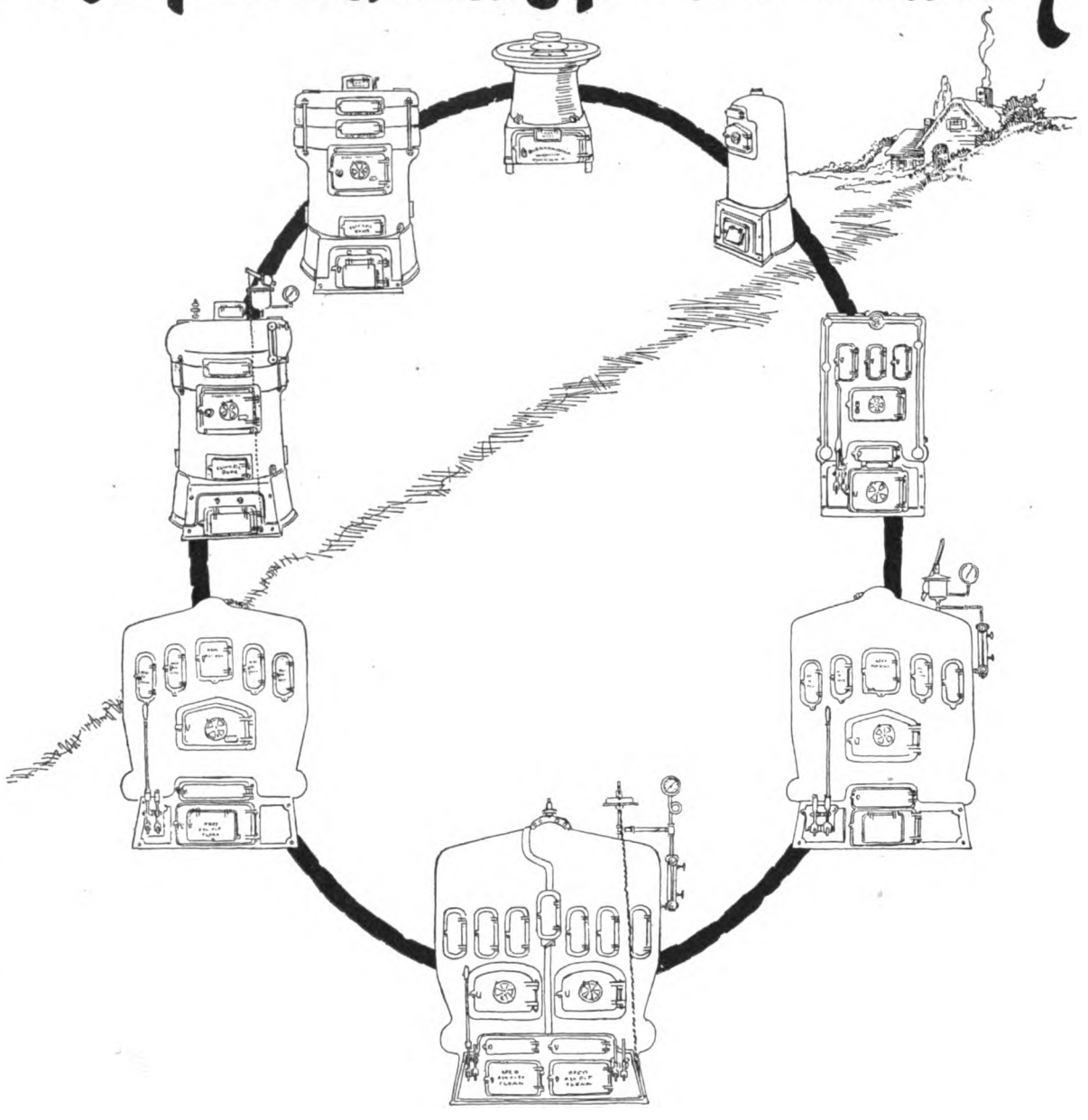
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We have just issued for architects and builders a set of California Pine Information Sheets covering all uses of these woods. These data sheets are compiled by a Wood Technologist formerly with the U. S. Government Forest Products Laboratory at Madison, Wisconsin and now connected with this association. He will gladly answer your inquiries or supply special data for specifications.

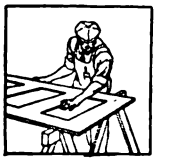
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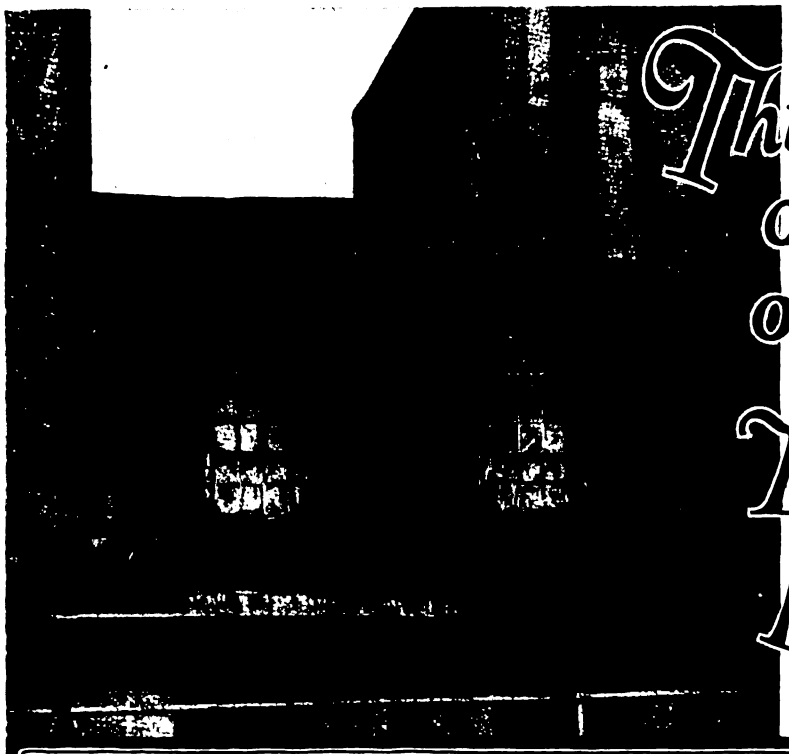
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This old house outlived two ordinary roofs

It deserved a permanent one

VIEW OF A HOUSE BUILT IN "COLONIAL DAYS" ON NORTH FRONT STREET, PHILADELPHIA
and shown here without retouching

Two different roofing materials were used successively on this house, yet neither was as good as the original framework of the house. Rot, rust and decay got in their work with both materials, as here pictured.

Ambler Asbestos Shingles would have lasted just as long as any part of the house. They cost more at the outset than an ordinary roof, but in the long run these sturdy shingles would have saved the owner many dollars, to say nothing of annoyance. There is nothing about them to either rot or rust. Composed of the highest quality of hydraulic cement, with which is interwoven and intermixed long-fiber asbestos, these shingles stand unaffected by any of the elements that play havoc with ordinary roofs.

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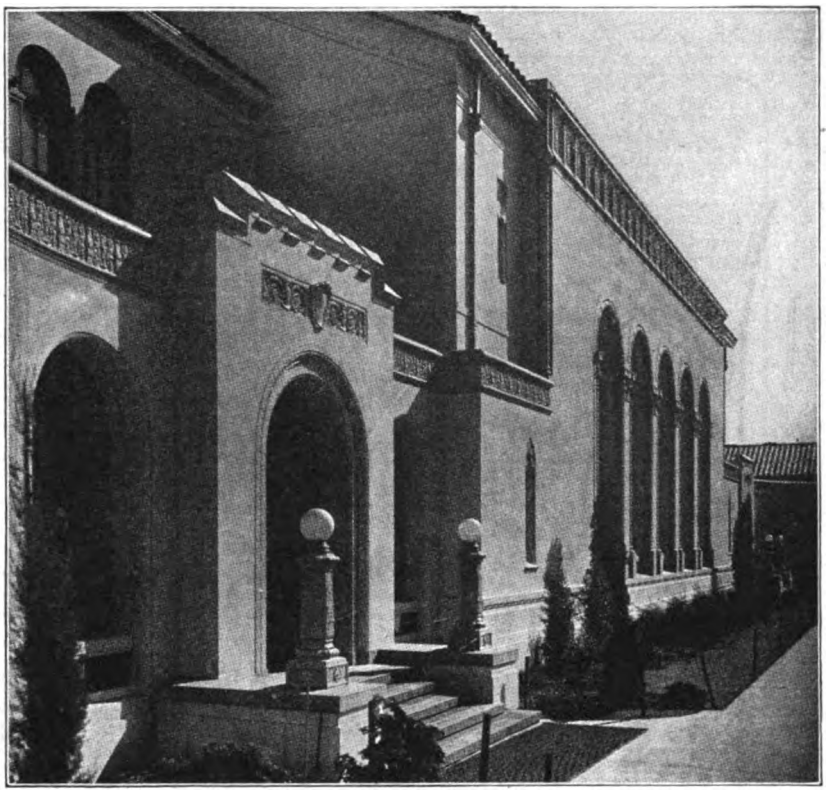


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Piedmont, Calif., High School. Walls, exterior and trim stone, all of concrete. Architect, W. H. Weeks, San Francisco

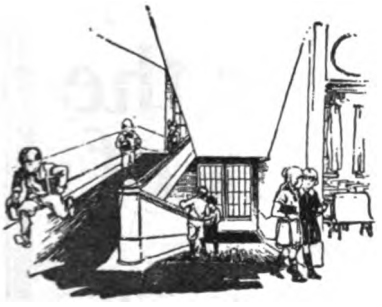
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Books, music, and the personality and teachings of the instructor, all help to develop such ideals.

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Concrete ramps greatly facilitate safety of movement within the building. That is one of the important reasons why the architect specifies them instead of stairs

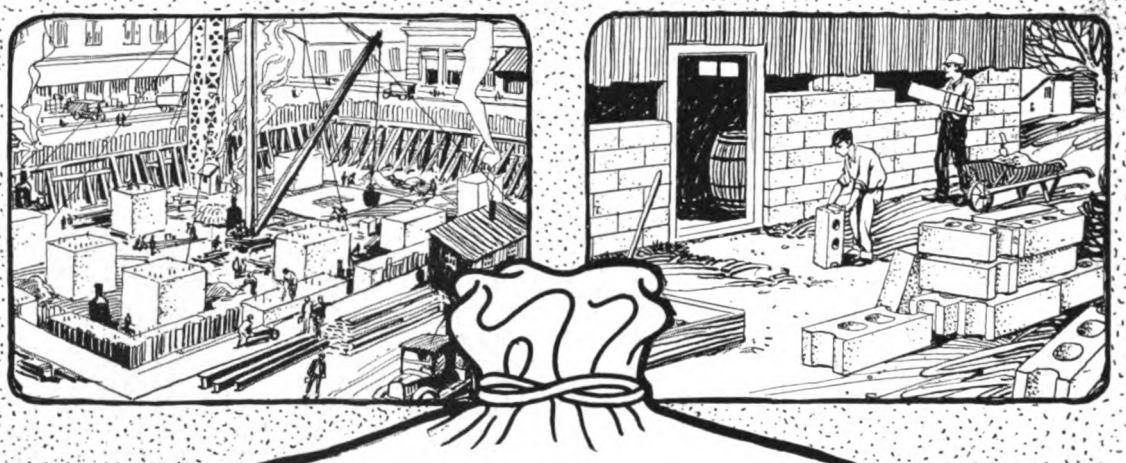
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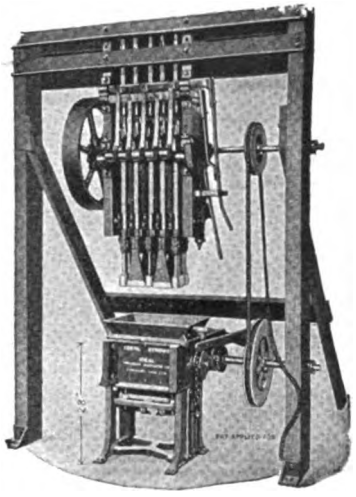
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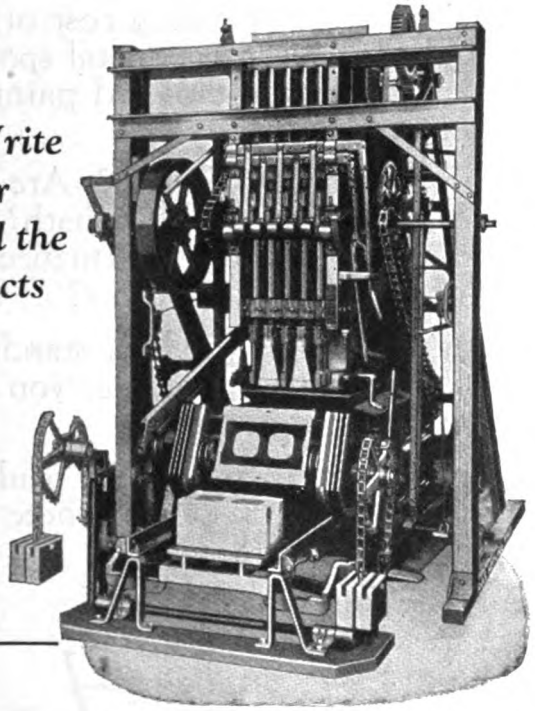


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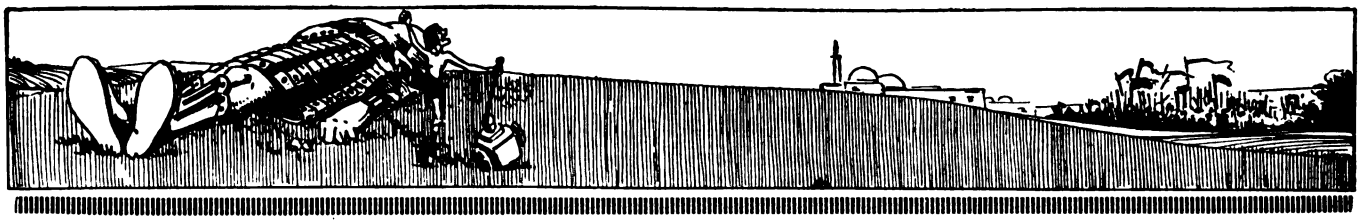
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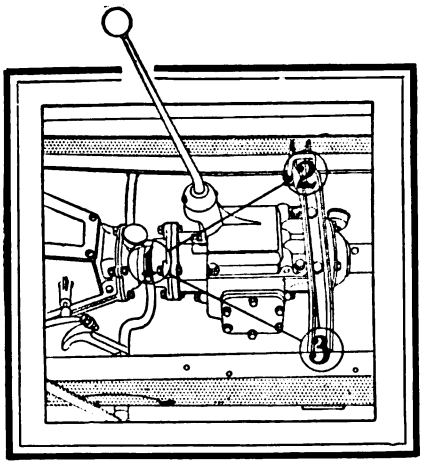
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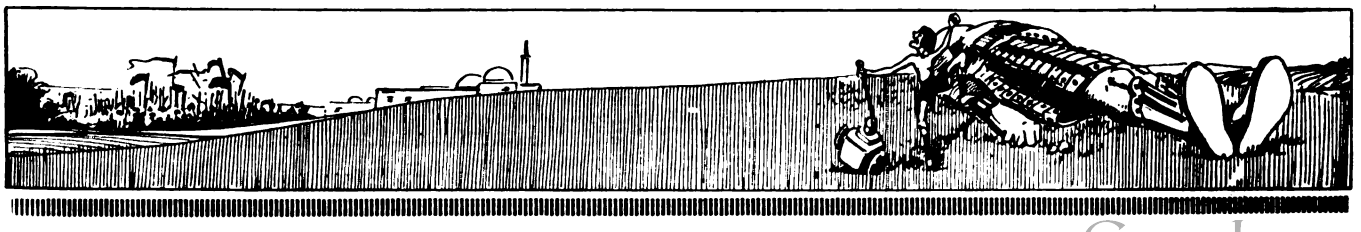
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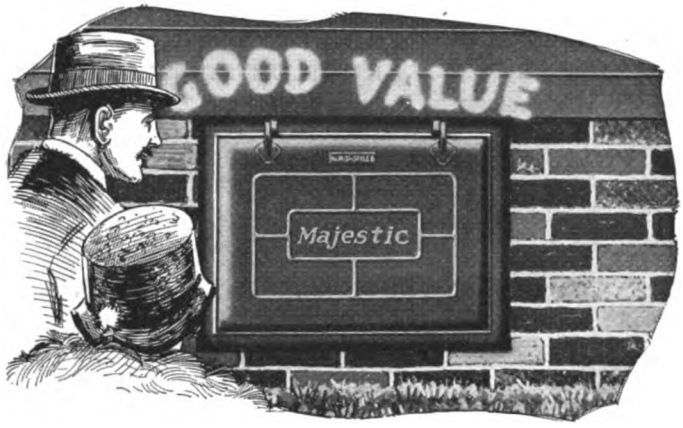


Wallace Universal Circular Saw in Action

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More Credit to You

if it's right at first!

AFTER all, *you* are responsible for the kind of finished job the home-owner gets. And it's to your lasting credit if everything is right at *first*. But—if the coal window becomes a source of irritation expense and depreciation for him, it's a knock against you! Ordinary sash and "cheap" coal windows can't long stand the gaff. The Majestic Coal Window says "good value" to everone who sees it. And the little extra it may cost at first, is insignificant compared with the grief and expense it saves later. It protects the house against damage, and is guaranteed break-proof—made of Certified Malleable Iron and Keystone Copper Steel. And electro-galvanized pressed steel doors defy rust. It pays to install Majestic Coal Windows in homes you build.

Majestic Coal Windows come in a variety of styles and sizes with or without hopper, and with glass or pressed steel door. Write for catalog and dealer's name.

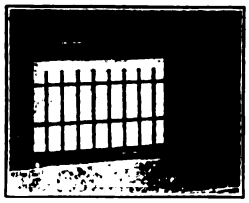
Other MAJESTIC *Quality Products*



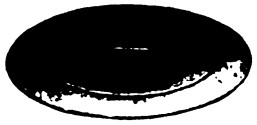
Underground Garbage Receiver



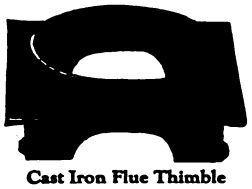
Milk and Package Receiver



Metal Basement Window



Cistern Ring and Cover



Cast Iron Flue Thimble

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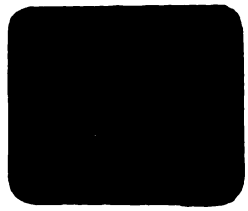
Fireplace Damper



Fireplace Ash Dump



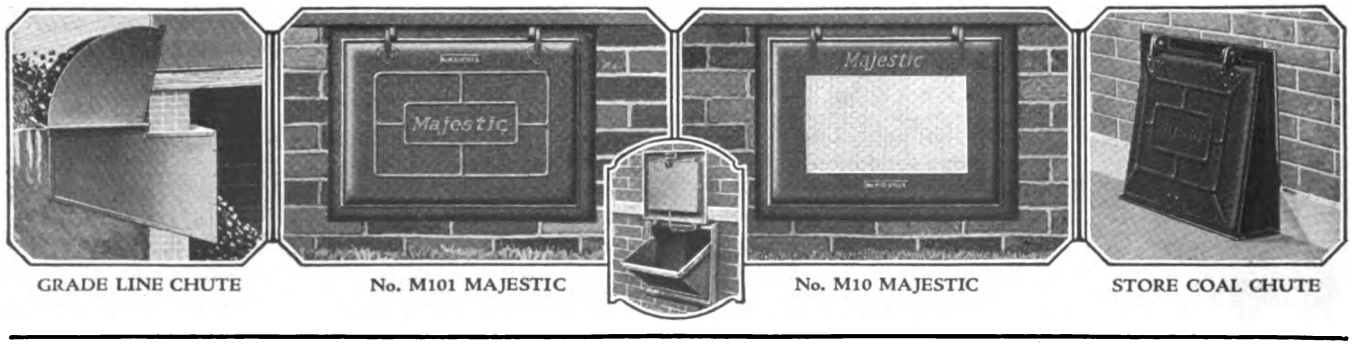
Flue Clean Out Door



Ash Pit Door



Cellar Wall Grate

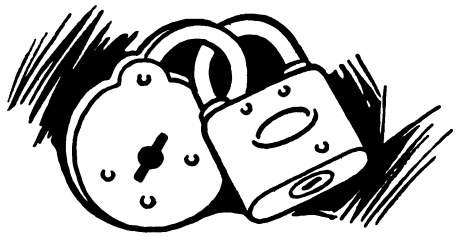


GRADE LINE CHUTE | No. M101 MAJESTIC | No. M10 MAJESTIC | STORE COAL CHUTE

THE MAJESTIC COMPANY · HUNTINGTON, INDIANA

Canadian Factory THE GALT STOVE & FURNACE COMPANY, Ltd., Galt, Ont.

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Doubly Locked

Type of Shingle	10" Strip Shingles (4 in 1)	Individual Shingle	Cyclone Shingle
Thickness on Roof	1 Thick 2 " 3 "	2 Thick 3 " 4 "	2-3-4
Sqs. laid per hour during Speed Test	1¼	¾	2¼
Head Lap	2"	4¾"	6 7/10"
Side Lap	3¾"	2⅝"	5"
Number of Shingles per Square	112	424	72
Number of Nails per Square	560	848	216
Locked-Down	No	No	Twice
Weight per Square	200	240	200 Lbs.

CYCLONE Shingles are aptly named. Nothing short of a cyclone can dislodge them. Each shingle is *doubly* locked, making it impossible for them to cup, curl or blow up.

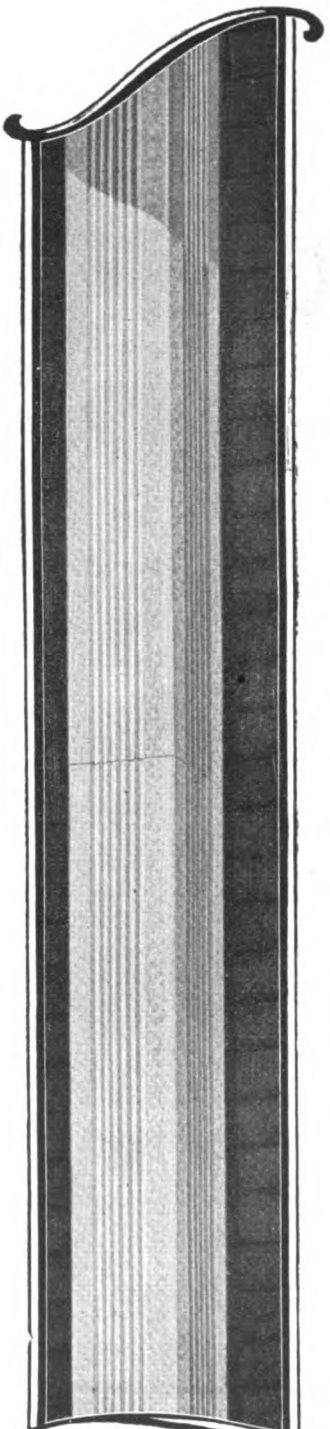
This is only one of many advantages which *Cyclone* Shingles possess. A glance at the chart to the left will tell you the rest.

Available in Blue-Black, Red, Green and Cyclo-Blend. Underwriters' Labels. A post-card will bring further particulars.



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HAND-DIPPED CONDUCTOR PIPE



The exceptional durability and reasonable cost of Wheeling Hand-Dipped Conductor Pipe make it the most desirable pipe of its kind in *any* locality for any kind or style of building.

It possesses the rigid strength of the Copper-Steel that constitutes its base, and therefore does not crush or dent in handling. This insures a good workmanlike job and proper appearance on the building. And in addition to its strength of steel it affords the doubly efficient protection against rust through its rust-resistant base plus the heaviest known coating of pure zinc,—made possible by the hand dipping process.

The base of Wheeling Hand-Dipped Conductor Pipe is Ohio Metal (Copper-Bearing Steel) well known for its durability. In sheet form it is Terne Coated (Lead and Tin). After fabrication into perfect conductor pipe of all standard styles it is hand dipped in pure zinc. The seam becomes a soldered and zinc-sealed seam, making practically a one piece pipe. There is no other Conductor Pipe like it.

Wheeling also provides Hand-Dipped Elbows, made of the same material and by the same process, to be used with Wheeling Hand-Dipped Conductor Pipe, in addition to a full line of Hangers and Extra Heavy Coated Eavestrough.

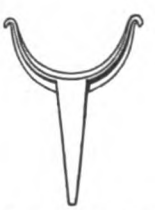
Eavestrough Hangers And Fittings



One piece Corrugated Conductor Pipe Elbows and shoes



Hinged hooks plain or corrugated for brick or wood



Round hooks wired



Galvanized Steel Wire Eavestrough Hangers

WHEELING CORRUGATING COMPANY

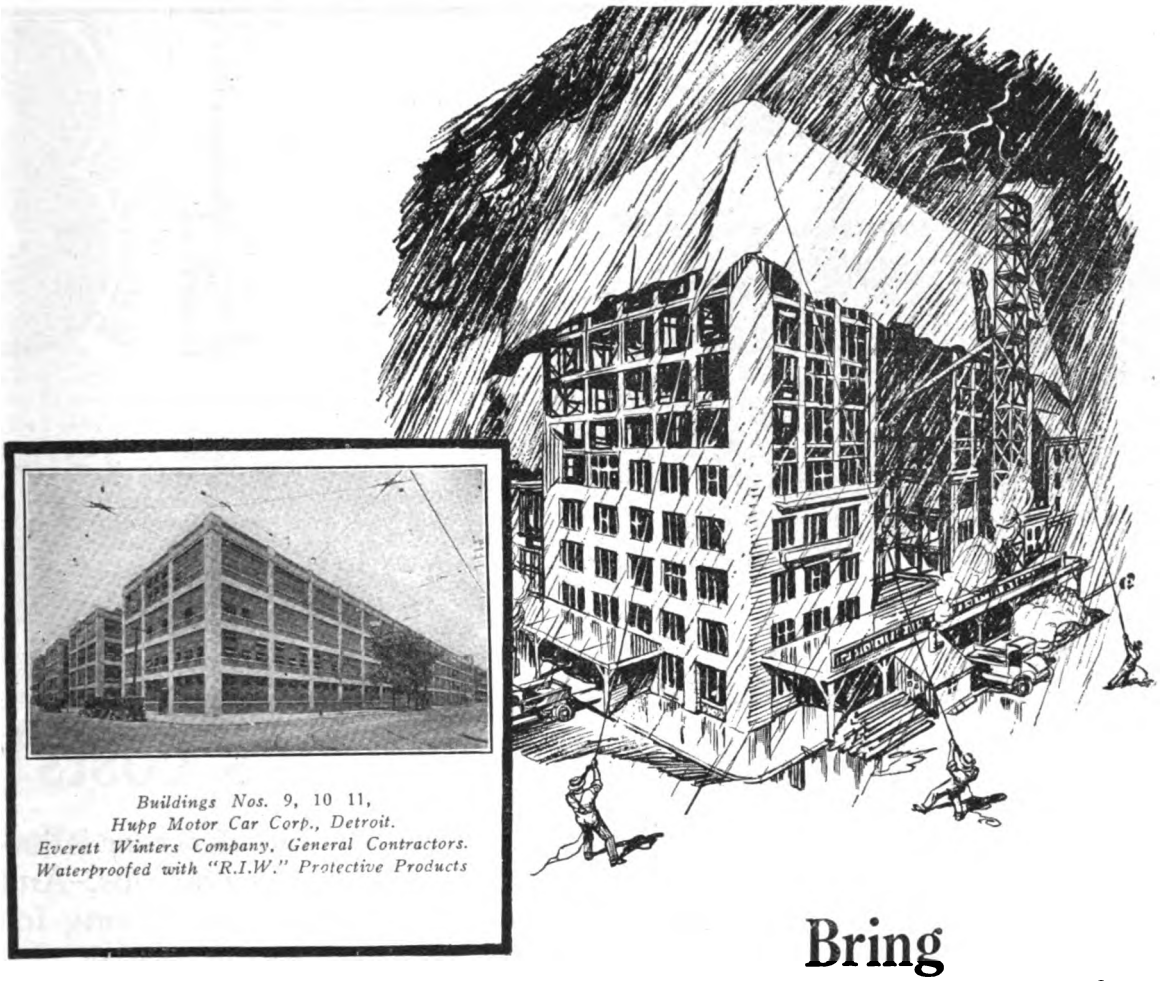
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"R.I.W." TOXEMENT MORTAR PASTE* for the integral waterproofing of cement mortar and stucco; for cement mortar troweled on the outside of brick or rubble foundations.

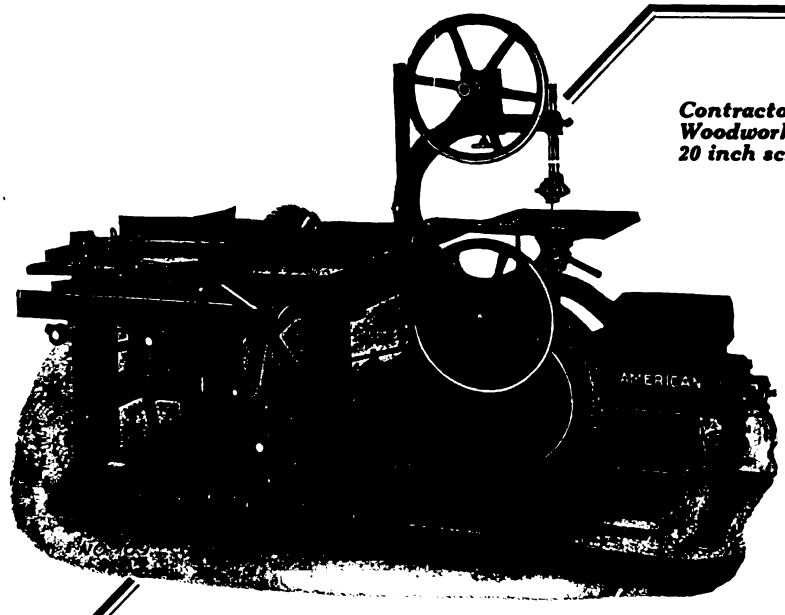
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Contractors' Variety Woodworker with 20 inch scroll saw

Cuts any kind of lumber— and, say!—how it cuts costs!

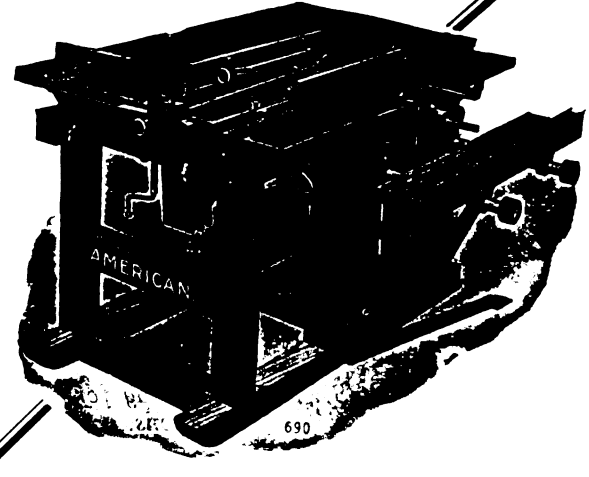
THIS American Portable Variety Woodworker is letting hundreds of contractors figure low on jobs. And clear up bigger profits, too! No slow hand sawing for them. No waiting on the nearest shop for special jobs. Instead, they have a complete woodworking plant right at hand. Four men can work at it at once.

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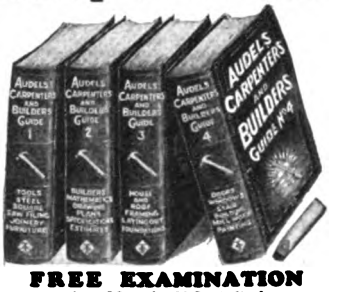
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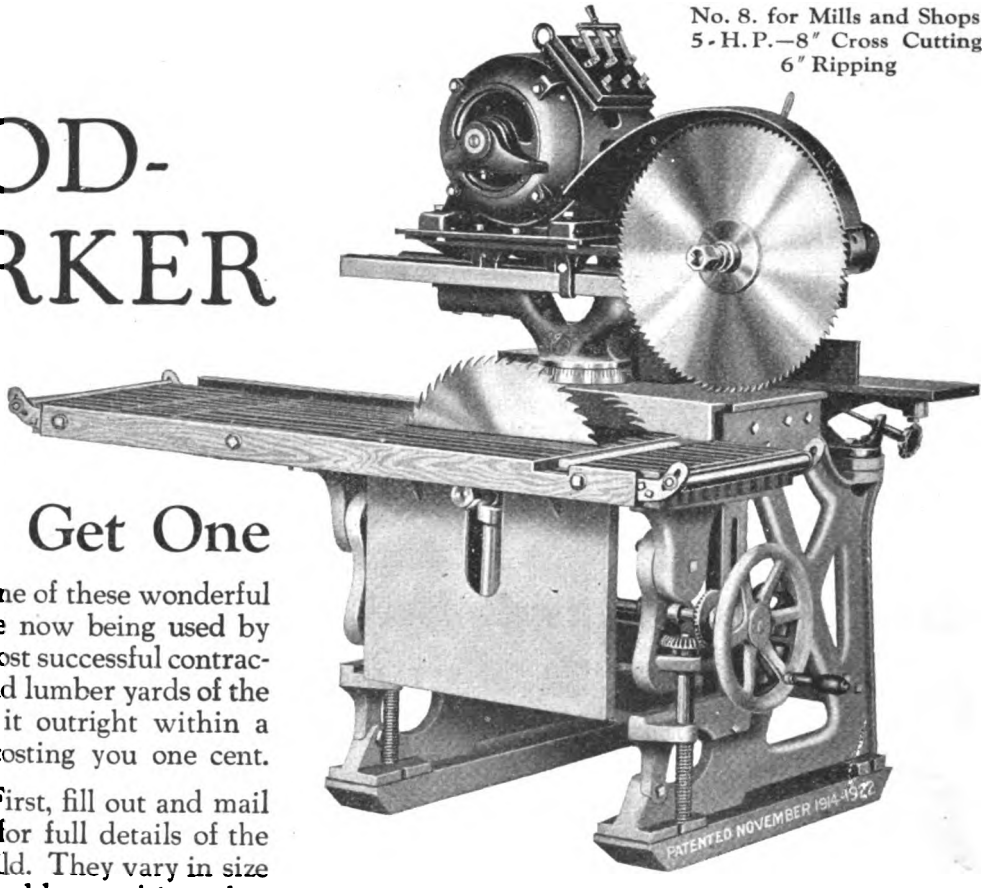
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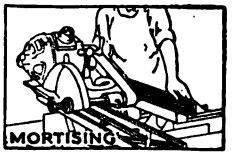
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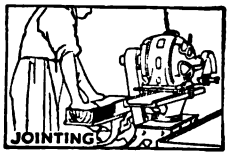
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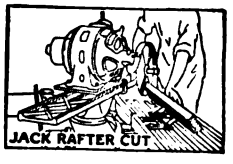
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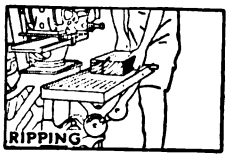
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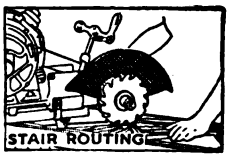












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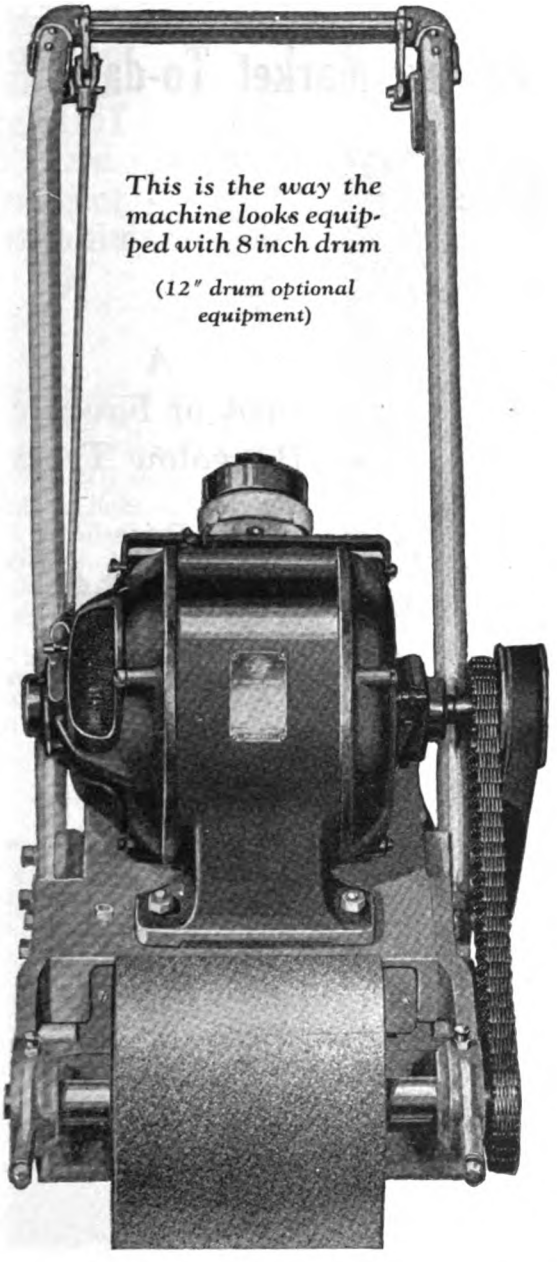
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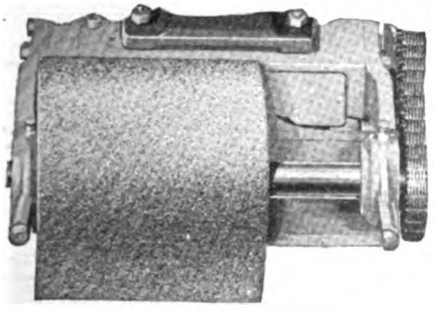
Then you don't have to continually lift to apply pressure on the drum. Think what an improvement this is—how it will rejoice every man who operates it.

And when you use the 8" drum, it gives you so much additional pressure per square inch that you will be able to clean floors and clean up profits faster than you ever dreamed of before. This is because the 8" drum has little or no leveling action and consequently cuts faster than a 12" drum as much less material has to be ground off.

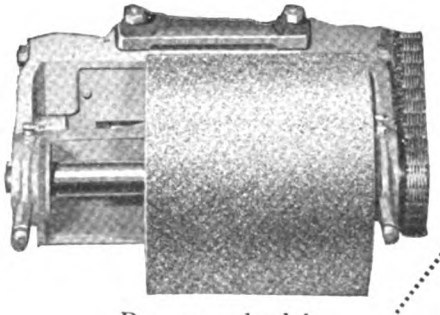
And you can buy it cheaply and easily on small payments.

Made by an old established concern. Money cheerfully refunded if 30 days trial does not prove it entirely satisfactory.

Fill out and mail the coupon now.



Drum moved to right within 1" of wall



Drum moved to left within 3" of wall

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Send me your new folder together with offer showing how I can buy a Master Floor Sander on small payments allowing machine to pay for itself.

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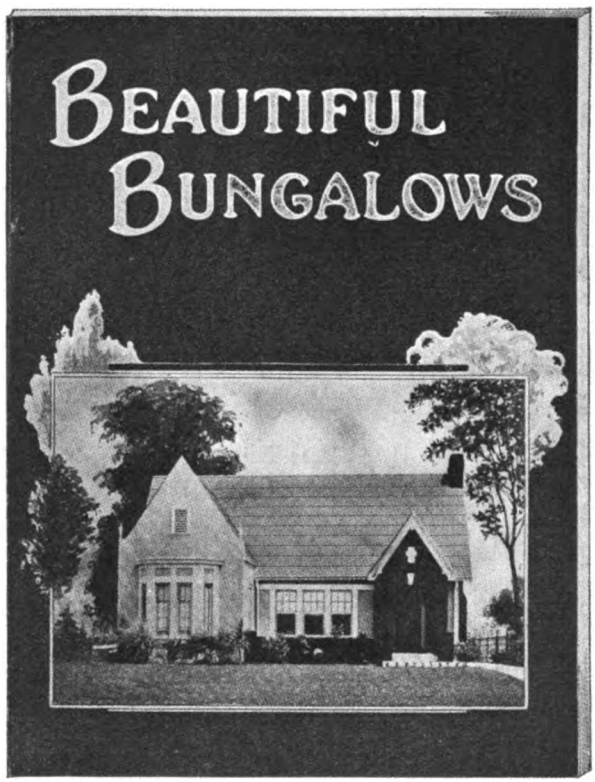
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Answering the Biggest Question in the Building Industry

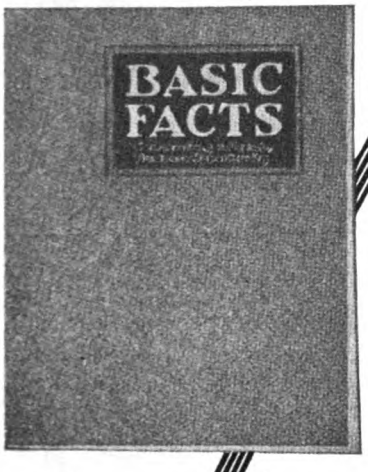
How to REDUCE the COST of *Fine* Permanent Construction ?

Every forward-looking architect, contractor and builder will be deeply interested in this newly published booklet because it shows in detail how *DUNTILE, the all-purpose Concrete building unit,* has brought finest permanent construction within the limits of common sense economy. More important even, it proves how this sound economy may be applied to the complete construction of *every* type building.

Astonishing as it may seem to those not yet fully acquainted with its merits, *DUNTILE reduces the cost of finest permanent construction to the level of frame or 30% less than brick.* This perfected building unit combines light weight with great strength; provides super-insulation; is damp-proof, fire resisting, efficient in the wall, easy to lay. And, being made in all standard sizes, it lends itself to ALL construction, either alone or with other materials.

The above barely outlines the great practical value of the information contained in this booklet; use the coupon below to send for your copy!





How YOU May Win MANUFACTURING INDEPENDENCE through this Great Product!

If you are in position to take advantage of a manufacturing opportunity that offers substantial immediate returns and practically *unlimited* future, you surely will be interested in the example set for you by some 250 successful men who own independent DUNTILE manufacturing plants.

The plain facts back of these successes are simply these: DUNTILE offers such decided advantages that it rapidly becomes the preferred building unit wherever introduced. Scientific production in Standardized DUNTILE Plants results in manufacturing profits of 30% to 60%.

All the facts and figures brought out through the widespread manufacture of DUNTILE have been condensed into a concise volume, "BASIC FACTS," which enables you to learn exactly what you may expect to accomplish with a DUNTILE plant of your own. Do not wait until someone else has taken advantage of the opportunity that today is yours; mail the coupon now!

W.E.DUNN MFG.Co.

700 WEST 23RD STREET,
HOLLAND, MICHIGAN.

☐ Show me how I can build permanent, fireproof masonry walls at cost of frame, or 30% less than brick, and make more money for myself.

☐ Show me how a moderate investment will enable me to manufacture DUNTILE at a profit of 30 to 60% and still compete successfully with other materials.

Name .....

St. Address .....

City ..... *State* .....

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HESS Welded Steel FURNACE

Hess Welded Steel Furnaces are the praduct of fifty-two years furnace-making experience.

They are DIFFERENT—with a reason for every point of difference, and better than ordinary furnaces.

They mean health and comfort in the home— cleanliness and economy in heating. Plan for it in your new home.

If your old heater is unsatisfactory or worn out it may be superseded by the Hess system, with benefit to your health and purse.

SQUARE SHAPE— gives maximum radiating area, evenly heated, none overheated.

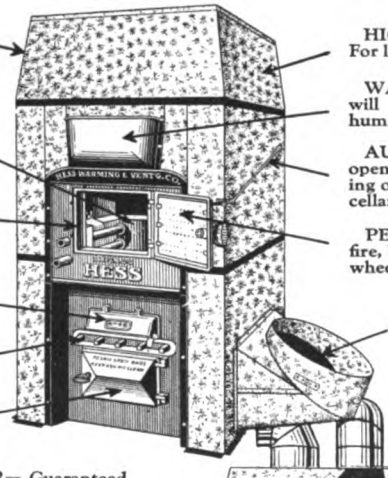
FIRE BRICK— retains high temperatures essential to perfect and complete combustion of fuel; withstands intense heat. The *only* thing for oil burning.

LOW FIRE DOOR— easy to lift fuel, which is dropped just inside the door;— no tunnel to firepot.

FRONT DRAFT DOOR— gives greatest effectiveness in "booming-up" fire. Chain operated from upper floor.

GRATE BARS—individually operated from outside; easy to rock gently or turn over.

LARGE ASH PIT DOOR— facilitates easy cleaning of ashes. Serves as draft door also.



HIGH CAP STYLE— with pipes leading from sides, For low ceiling basements.

WATER PAN— placed high, where heat is strong, will evaporate the necessary amount to properly humidify the air.

AUTOMATIC DRAFT ACTION— automatically opens Direct Draft when fire door is opened, drawing off smoke and gases, preventing their escape into cellar when firing.

PERFORATED FIRE DOOR— sprays fresh air on fire, burning gases and smoke. Equipped with check-wheel.

AIR SUPPLY COLLAR— on either side,— returns cooled air from first floor for reheating and re-circulation.

WELDED STEEL RADIATOR— Guaranteed *never* to leak dust, soot, smoke, nor gas. The only acceptable construction for oil burning. Immense radiating surface. Quick results from quick-heating steel.

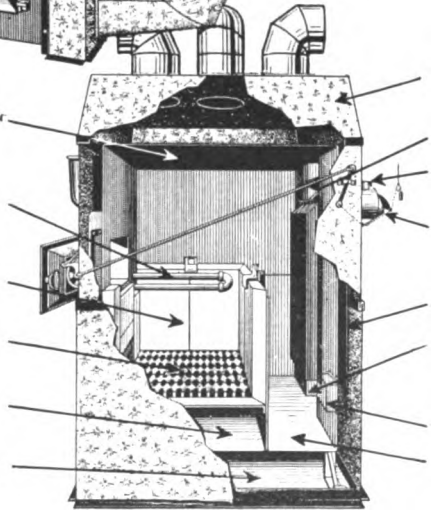
HOT WATER COIL— provides an ever-ready supply of hot water.

RECTANGULAR FIRE BOX— of highest efficiency. Maintains even depth of fire; same area at top as at base; no dead corners; firebrick lining and individually operated grate bars.

GRATES BURN ANY FUEL— hard or soft coal, coke, lignite, soft coal slack, corn cobs. Operated separately will clean any part of the fire without disturbing the rest of it.

RECTANGULAR ASH PIT— smooth bottom, vertical sides, square corners. Your shovel reaches every part.

BOTTOM AIR SPACE— permits air supply to spread under and to all sides of radiator, insuring equal distribution of air.



LOW CAP STYLE— for high-ceiling basement; permits pipes from top, most efficient.

DIRECT DRAFT— at top of radiator, creates strong draft for emergency.

SMOKE PIPE OUTLET —direct and straight;— no crooked flues to clog and reduce heating efficiency.

CHECK DRAFT— operated from above by chain.

INNER CASING— double air-space around furnace. Prevents loss of heat.

INDIRECT SMOKE OUTLET— the heat cannot escape.

CLEAN-OUT DOOR— direct access to soot chamber makes cleaning simple.

SETTLING CHAMBER — nothing to clog; the vertical sides prevent accumulation of soot to retard draft.

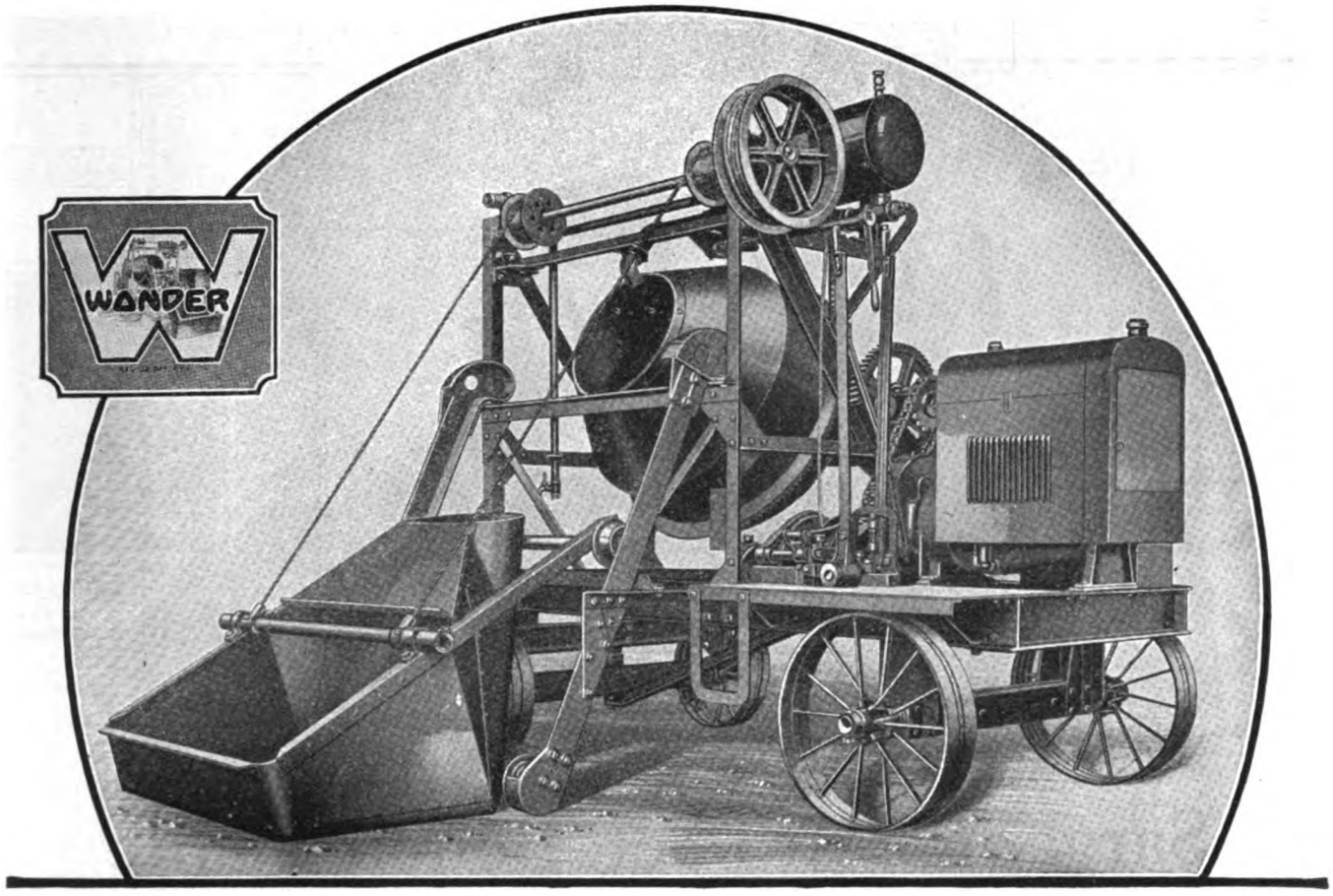
Write for "*Modern Furnace Heating*" a practical treatise on the subject of heating by various methods, which also presents a complete outline and discussion of Hess Furnace construction and merits.

If you live away from the city, send us rough sketches of your floor plans and our *Service Department* will design for you, without charge nor obligation, a heating system guaranteed to be successful.

HESS WARMING & VENTILATING COMPANY
1201-K South Western Avenue, - Chicago

Branch Offices: Brooklyn, N. Y; Detroit; Cincinnati; Milwaukee; Minneapolis.

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Wonder 14——1925 Model

10 Seconds to Charge—5 Seconds to Discharge

THE rapid charging and discharging of the WONDER "14" combined with the fast and thorough WONDER mixing action enables you to greatly increase your daily yardage.

This is accomplished without sacrificing mixing time because the WONDER "14" charges in 10 seconds and it requires but 5 seconds for the entire mixed batch to pour from the drum.

The WONDER power tilt is the highest development in a power discharge. It is simple, rapid and positive in action, automatically stops in both the charging and discharging positions and is the first successful power tilt used on a Single Opening Tilting Mixer.

The loader is of the track type with its extension advantages. A four cylinder 10-15 H. P. power plant insures a surplus amount of power.

The WONDER catalog fully describes this model. Send for your copy today!

Construction Machinery Co.
WATERLOO, IOWA

WESTERN OFFICE
Los Angeles, California
455 East 3rd St.

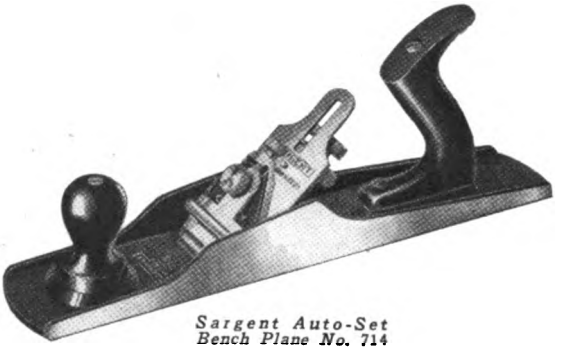
CENTRAL OFFICE
Indianapolis, Indiana
315 W. Maryland St.

EASTERN OFFICE
Philadelphia, Pennsylvania
Widener Bldg.

WONDER MIXERS

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SARGENT
Tools & Hardware



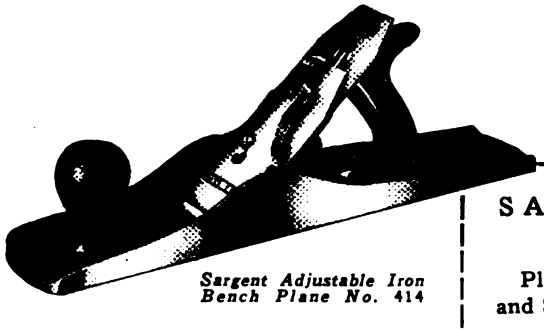
Sargent Auto-Set
Bench Plane No. 714

Sargent Auto-Set Bench Plane is in a class by itself

THE Sargent Auto-Set is a decided advance in plane design. The way the chromium steel, non-chattering cutter is held—the greater space between frog and handle—and the simplicity and strength of every part combine to make the Auto-Set the handiest all-round plane ever built for professional service.

When the cutter needs sharpening, it may be removed and replaced without changing original adjustments. Yet in place, the cutter is absolutely rigid even when cutting across or against the grain. Furthermore, chromium steel is one of the finest edge-taking, wear-resisting alloys ever used in a cutting tool.

A trial will convince you that the Sargent Auto-Set speeds and improves work, and that it does not "eat up" the worker's energy, even in prolonged operation. For those who stick to old favorites, there are other Sargent Planes which have no superiors in their respective classes. See them at your dealer's and mail coupon for free descriptive booklets.



Sargent Adjustable Iron
Bench Plane No. 414

SARGENT & COMPANY, *Manufacturers*
52 Water Street, New Haven, Conn.

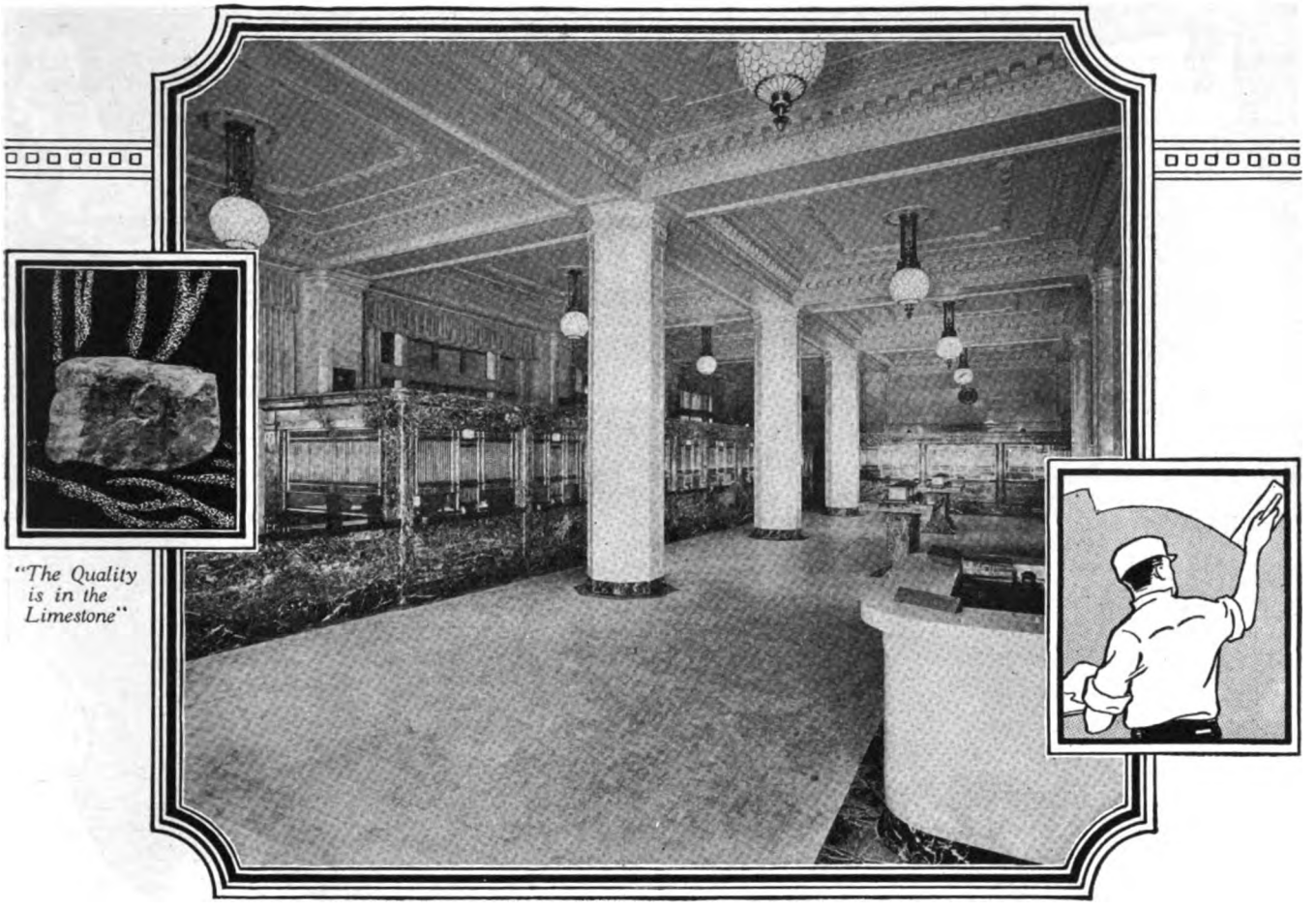
Please send me, without cost, the booklets on Sargent Planes and Squares.

Name.....

Address.....

.....

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"The Quality is in the Limestone"

The high standard of our brands of finishing hydrated lime has not been set by the ingenuity of man—nature has done a much better job in the superior quality limestone we quarry.

Our efforts and extensive manufacturing experience are devoted exclusively in guarding this precious and natural quality with zealous care from the quarry to the plasterer or mason.

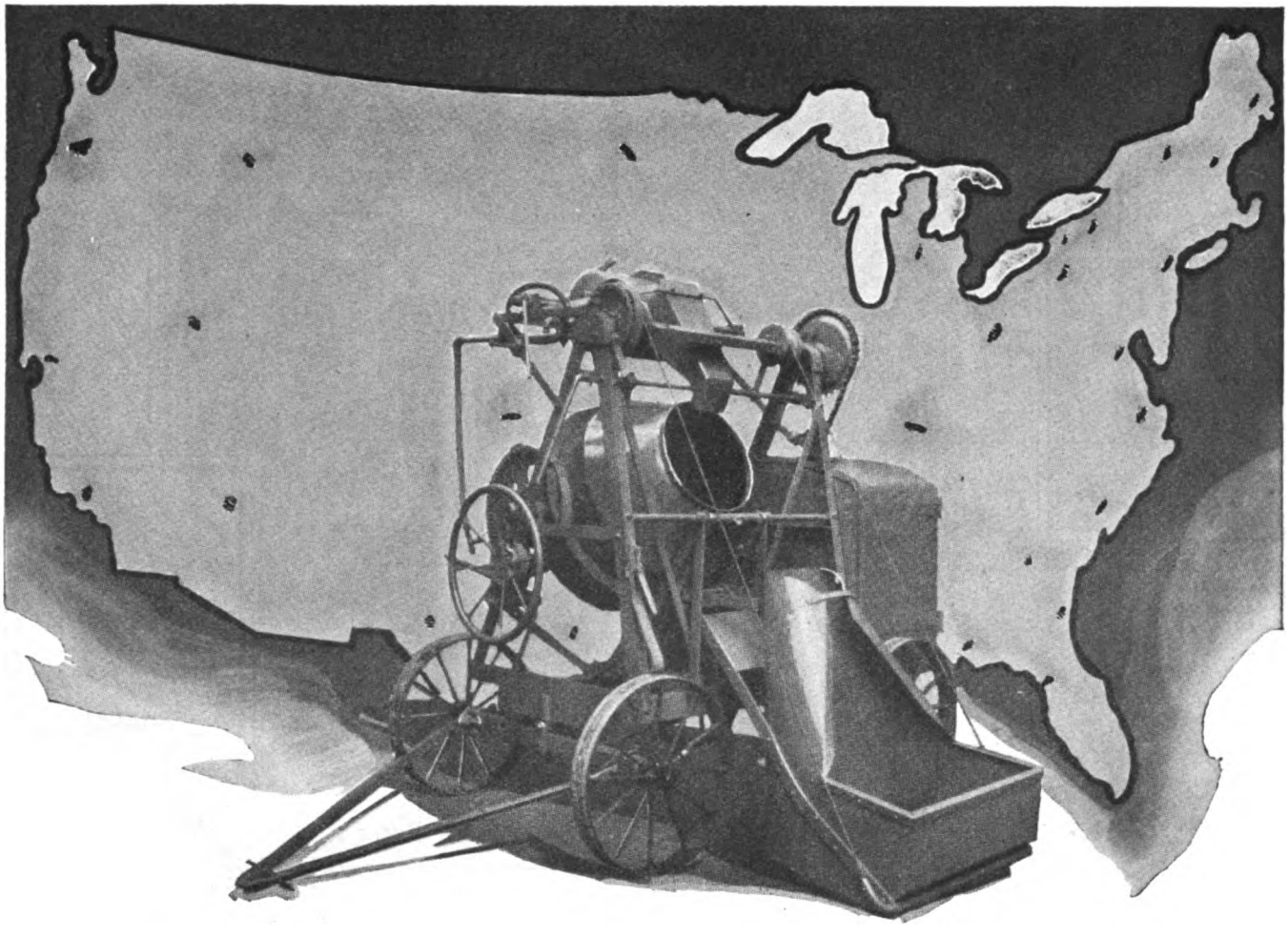
The result is a hydrated lime that has no equal for uniformity in quality, purity in whiteness, easy spreading qualities and wonderful strength. There is a dealer near you who handles one of these splendid brands.

THE WOODVILLE LIME PRODUCTS CO.
TOLEDO, OHIO

White Enamel Finishing Hydrated Lime

White Lily Gold Medal Lime

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Jaeger Distribution Is Nation-Wide!

WHERE skyscrapers climb towards the clouds—where residences and apartments are going up—where roads, streets and bridges are being built—there you will find Jaeger Mixers. Watch for these sturdy machines as you walk city streets or drive over highways. You will see them everywhere—for the concrete construction industry has accepted the Jaeger Mixer as its *standard*—the greatest value in concrete mixers it can possibly buy.

Jaeger's Exclusive Patented Features

Patented Jaeger Tilting-Drum with its split paddles and flat spots inside.

Patented Loader that speeds production.

Patented Discharge—semi-automatic and a great time saver.

Patented Water Tank—that adds 30% to the efficiency of the mixer.

Stocks In A Hundred Cities!

Jaeger distributors' warehouse stocks in approximately 100 of the largest cities in the country. One of them is close to you. One of them can ship you—promptly—any Jaeger mixing outfit you may need. Complete stocks of parts are carried at these warehouses and Jaeger repair service is swift and efficient.

Jaeger dealers place a Jaeger Mixer on the job when and where you want it. They keep steadily at work for you year in and year out. That is one of the big reasons for Jaeger's popularity with the entire concrete construction industry.

Write Today For A Jaeger Catalog

For complete information and illustrations of Jaeger's full line of 36 concrete mixing outfits, write for our catalog today. A post card will bring it to you by return mail.

The Jaeger Machine Company

216 Dublin Ave., Columbus, Ohio

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For Speed, Safety, Lower Costs,

Use *Trouble Saver* Steel Scaffolding



We daily receive letters from users all over the country, telling us of their complete satisfaction with their ***Trouble Saver*** equipment.

In scaffolding a house, two men with ***Trouble Savers*** can beat a gang of ten men working with lumber. And in taking down ***Trouble Savers*** there is the same speed, with the big added advantage that there are no nails to pull and no second-hand or waste lumber.

In use, ***Trouble Savers*** are absolutely rigid and many times stronger than wood. Your men feel perfectly at ease on ***Trouble Savers*** with the result that they do faster and better work.

Trouble Savers are also collapsible and can be folded, which means time and money saved in moving from one job to another and in storing.

All of these factors help to reduce your overhead and add that much more to your profits column.

Here is just what a few of our thousands of users say:

"Rightly named"—"Best ever"—"Safest scaffold made"—"Paid for themselves on first job"—"Quick and handy"—"Our men feel safe on ***Trouble Savers***"—"The finest thing for quick work and safety."

Send in your order today, or send for further information. It may mean the difference between a good profit or a loss on your next job.

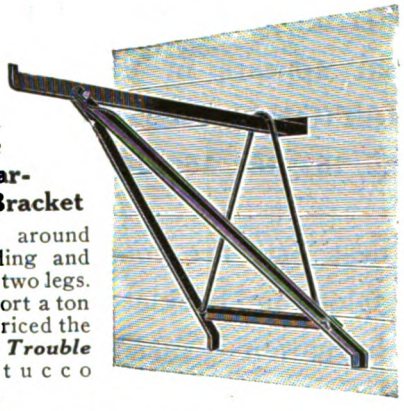
The Steel Scaffolding Co.

Evansville, Indiana



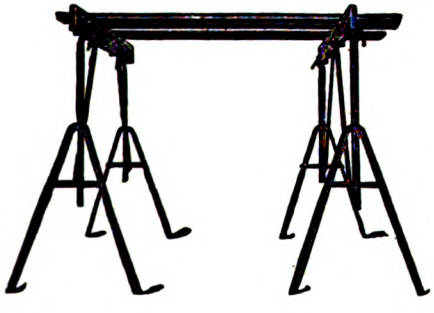
Trouble Saver **Stucco Bracket**

Quickly attached with four nails. Stands solidly on two legs without wabbling. No holes to patch when taken down.



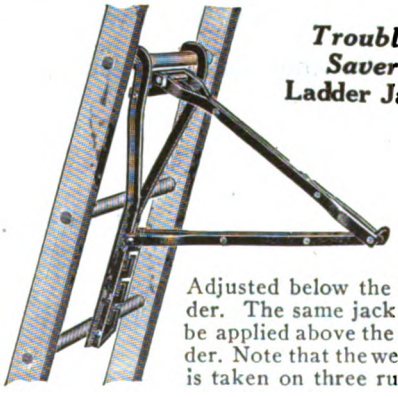
Trouble Saver **Carpenter Bracket**

Hooks around the studding and stands on two legs. Will support a ton weight. Priced the same as ***Trouble Saver*** Stucco Brackets.



Trouble Saver **Adjustable Steel Trestles**

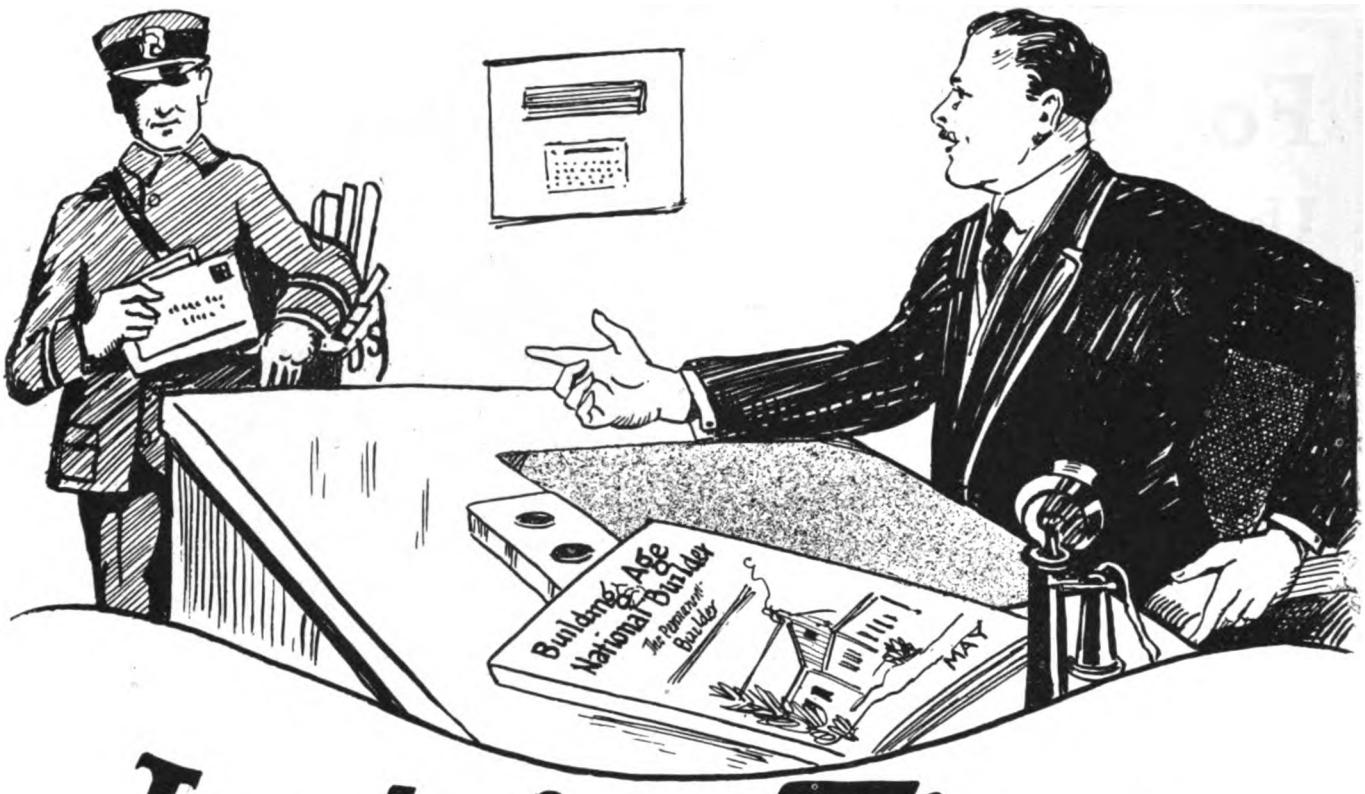
Come in six different sizes that give a range in height from 16 inches to 10 feet. A strong solid trestle that is easily and quickly erected and adjusted. Write for detailed information and prices.



Trouble Saver **Ladder Jack**

Adjusted below the ladder. The same jack can be applied above the ladder. Note that the weight is taken on three rungs.

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Just in Time -

— some detail of a job being figured — usually wanted most when not at hand—can often be acquired quickly by referring to the **Selected List of Manufacturers' Literature** that appears in every issue of **BUILDING AGE** and **NATIONAL BUILDER.** See pages 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170 of this number.

These lists are comprehensive, and the carefully prepared catalogs and booklets of leading manufacturers contain specific information—exactly the sort you may need badly at times.

Consult the list, jot down the numbers wanted on the coupon, and the specified literature will be sent you promptly—free of charge.

Service Dept.

BUILDING AGE and NATIONAL BUILDER

239 West 39th Street **New York, N. Y.**

COUPON

BUILDING AGE AND NATIONAL BUILDER, 239 W. 39th St., New York.

Gentlemen: Please send me, without charge, unless otherwise noted, the booklets shown in your "Selected List of Manufacturers' Literature," the numbers of which I have noted below:

No..... No.....

No..... No.....

No..... No.....

No..... No.....

No..... No.....

No..... No.....

No..... No.....

No..... No.....

Name .....

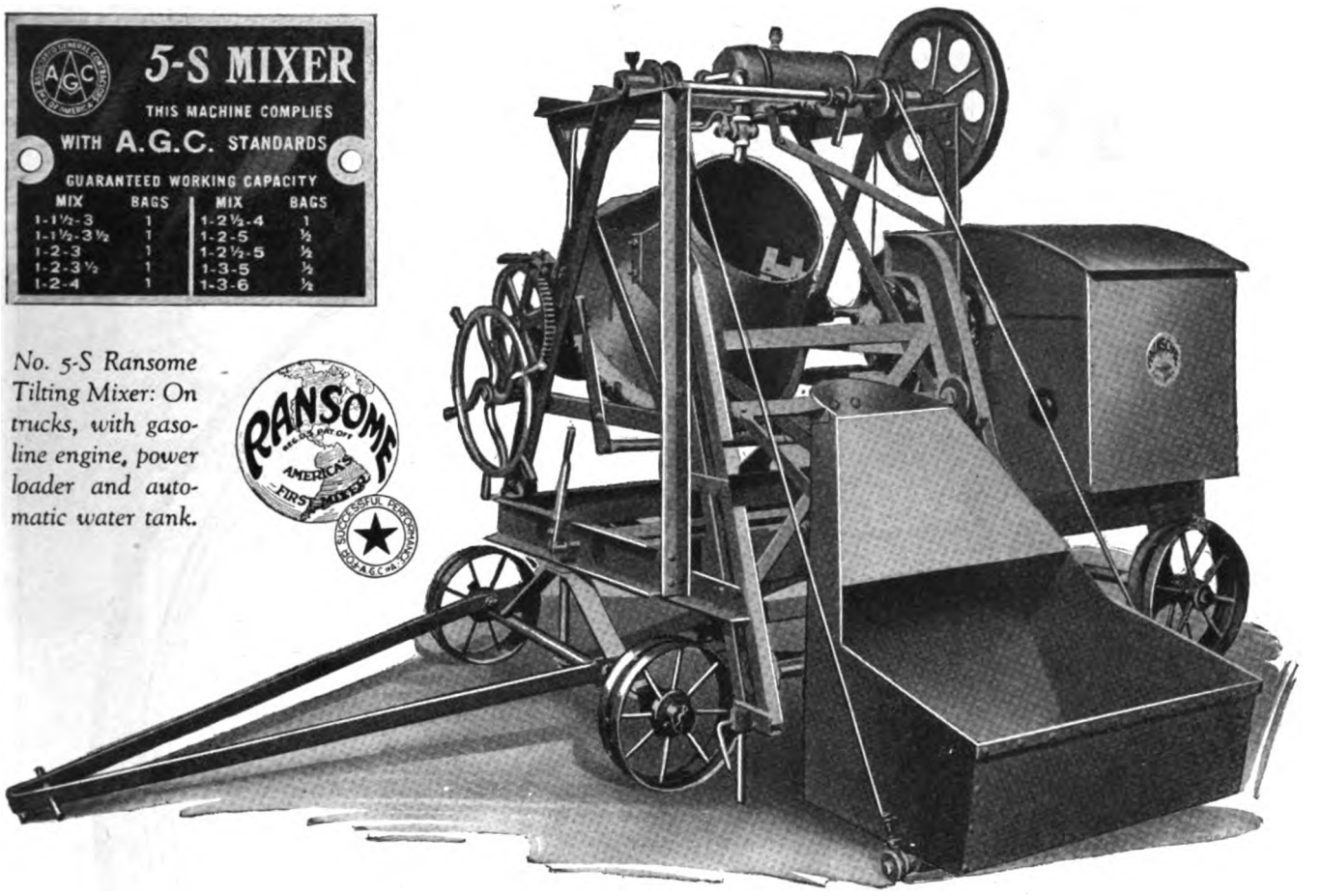
Address .....

Date .....

Occupation .....

8-25

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No. 5-S Ransome Tilting Mixer: On trucks, with gasoline engine, power loader and automatic water tank.

A Better 5-S Tilting Mixer

Quality is just as much appreciated in a Tilting Mixer as in a big 56-S Drum Type Machine. The wonderful reception contractors have given the No. 3½-S Ransome Tilting Mixer proves it — and here's a bigger tilter that will be even more popular.

It's a one-bag mixer for a 1-2½-4 mix based on A. G. C. standards.

The drum turns on Timken Tapered Roller Bearings with hardened inner and outer races. Mixer has track or sliding power loader which can be dropped below ground level if necessary.

Band friction clutch operates the power loader bucket.

Automatic knockout releases clutch and sets power loader brake.

Closed pressure type automatic water tank, the same as on the drum type Ransome Mixers.

RANSOME CONCRETE MACHINERY CO.
Main Office and Plant, Dunellen, N. J.
Chicago Office and Warehouse, 1353 West Washington Blvd.
Complete Stock and Service
Manufacturers of Concrete Mixers, Pavers, Pneumatic Mixers, Chuting Plants, Hoists, Buckets, Bins, Cars, Carts, etc.

We have an agent near you—wire at our expense for his name and address 8326

Without obligation on my part, please send me information on:—
Ransome Concrete Mixers, sizes 3½-S [ ]; 7-S [ ]; 10-S [ ]; larger sizes [ ]. Steam Drive [ ]; Gasoline Drive [ ]; Electric drive [ ]. Tilting Mixer, size 3½-S [ ]; 5-S [ ]. Concrete Chuting Plant for Building.....ft. long by.....ft. wide by.....ft. high.
Name.....Address.....

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A Day's Work



$51.60 PROFIT

with the *FREE-O-DUST* Super Surfacer

. Floor surfacing and refinishing is developing into a big business. The demand for better floors is becoming more insistent every day, and with the FREE-O-DUST Super Surfacer the work is easy, pleasant and Profitable—with a capital "P."

The only machine on the market guaranteed to pick up every particle of dust ON THE FORWARD MOVEMENT as well as on the backward movement, and that can be operated right up to the baseboard without having to use a small side drum. Does faster and better work. Pressure on drum automatic and drum can be locked to any pressure desired.

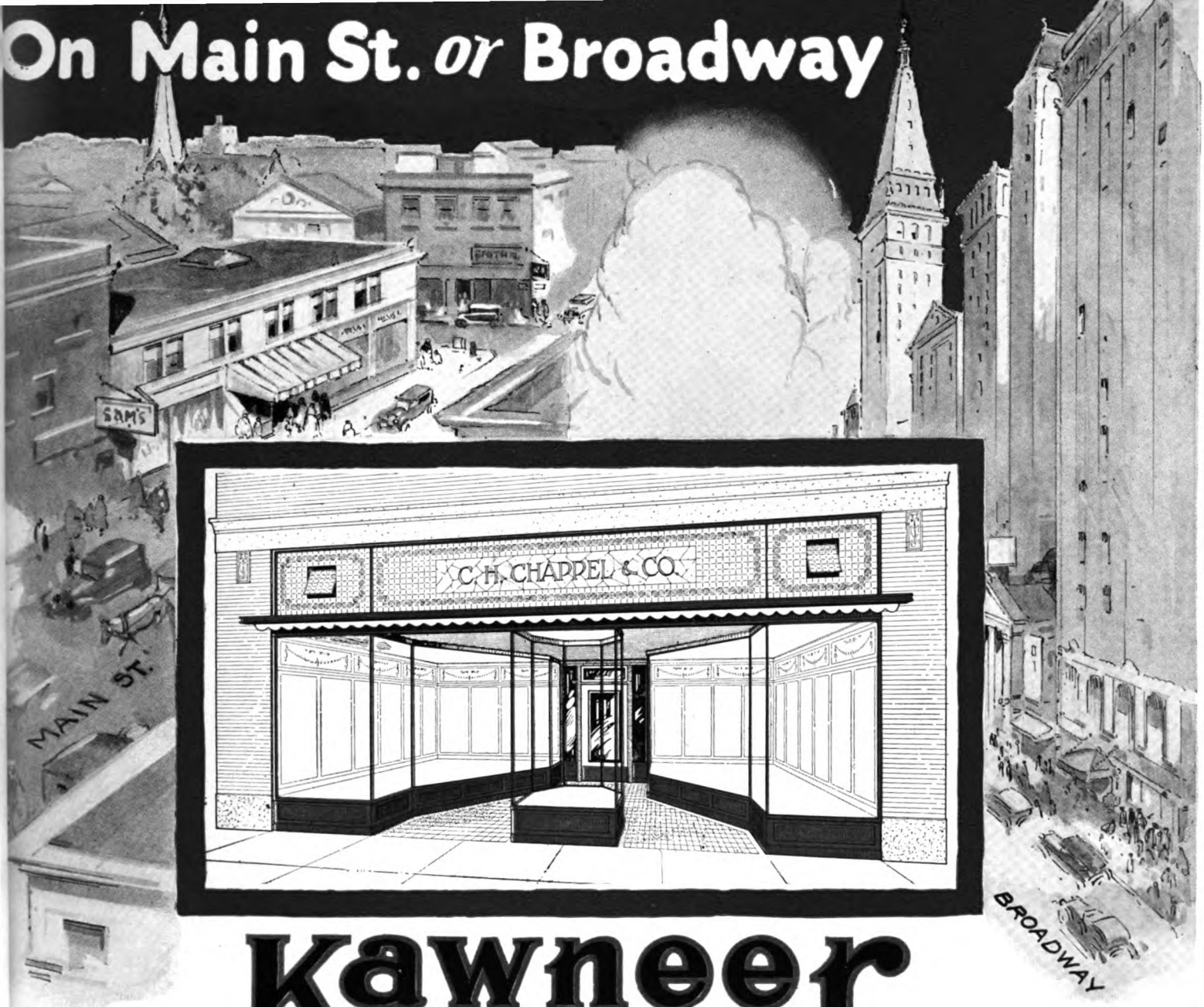
Sold on five days' free trial

Write for free copy of our booklet, "A DAY'S WORK." It does not obligate you in any way and it contains valuable information on how to make ADDITIONAL PROFITS ON EVERY JOB.

Electric Rotary Machine Company
3833 West Lake St., Chicago, U. S. A.
Manufacturers of floor surfacing machines for twenty years.

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On Main St. *or* Broadway



Kawneer

SOLID COPPER

STORE FRONTS

WILL *increase* SALES

Here's testimony that in every town—in any store—Kawneer Fronts will prove a profitable investment.

Becker Bros., Marine City, Michigan, write: "We charged the cost of our Kawneer Front as an investment but it would have been well to have charged it to advertising."

And in Boston—a city of a million—the Talbot Company say: "We feel our Kawneer Front has been the very best advertising medium—far ahead of newspapers."

More detailed information concerning these superior points will be gladly sent without obligation if you but sign the coupon and send it to us today.

See opposite side for Six Points of Kawneer Superiority



The
Kawneer Company,
2625 Front St.,
Niles, Michigan.

Please send me without obligation "Design Book" of Kawneer Solid Copper Store Fronts.

Name.....

Address.....

City..... State.....

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Home Offices and Factory
The Kawneer Company
Niles, Mich.

Kawneer
SOLID COPPER
STORE FRONTS

Where Kawneer Products
are designed and
manufactured

More than 260,000 Store Fronts Produced in Twenty Years

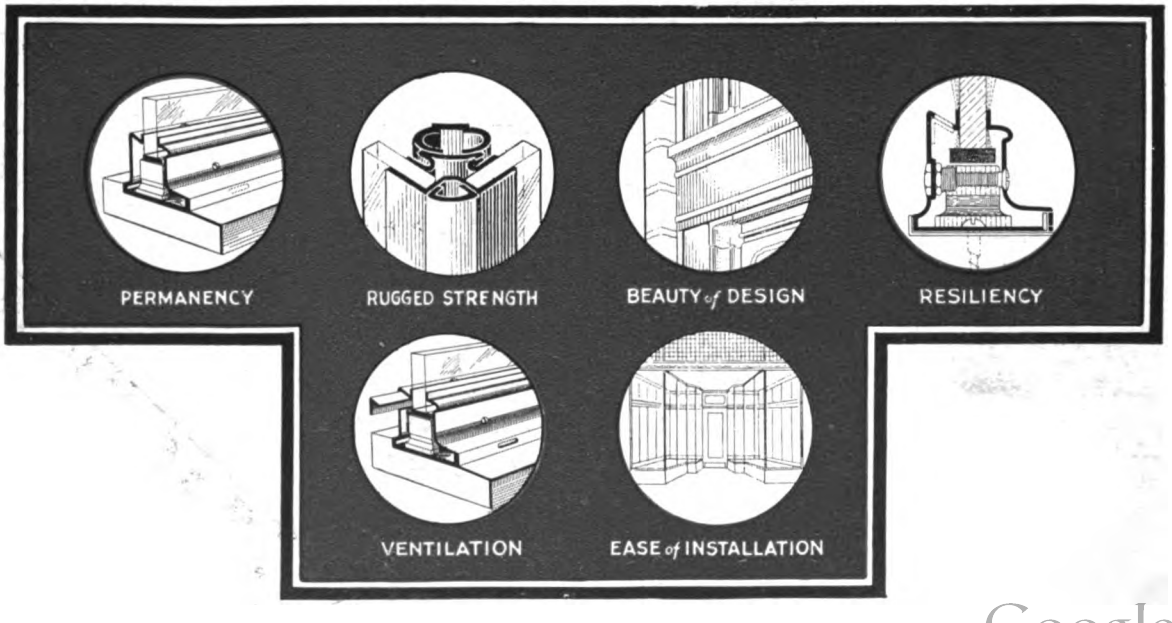
This large industrial plant is the result of Kawneer foresight and pioneering in Copper Store Front construction.

Designed by an architect who had specialized in the construction of business buildings, Kawneer Solid Copper Store Fronts met with immediate favor.

Now you can name no line of business that Kawneer Fronts have not benefited. They have not only added beauty and visibility, but have actually stimulated sales, for Drug, Shoe, Hardware, Motor Sales, Electrical, Furniture, Jewelry, Women's, Men's, and scores of other retail stores.

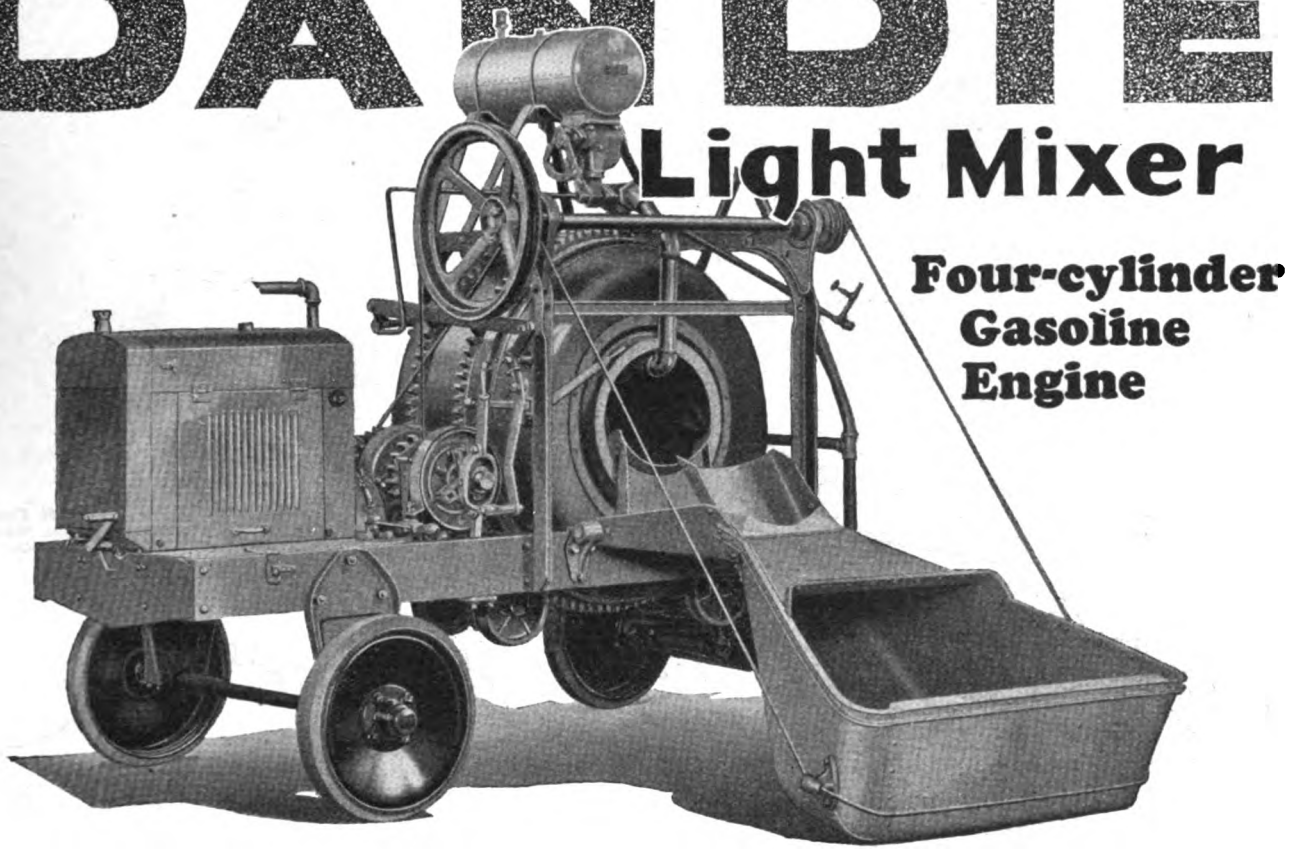
Booklets of suggestions covering many lines of business have been prepared and will be gladly sent without obligation to contractors who return the coupon shown on the opposite side of this sheet.

Here are 6 points of superiority found in full measure in Kawneer Solid Copper Store Fronts.



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KOEHRING DANDIE Light Mixer



Four-cylinder Gasoline Engine

FAST! Fast! Fast! Here is a light mixer with a speedy charging skip, liberal drum dimensions and a high speed discharge that will break all your records of putting concrete where it pays you profits!

Just the balanced light weight to haul behind your truck on its rubber tired disc wheels and get from job to job in a big hurry.

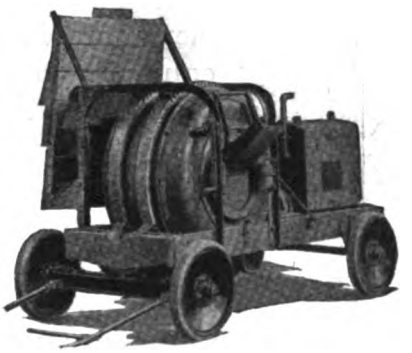
Four cylinder, radiator cooled, gasoline engine. Transmission from engine to drum enclosed in oil bath! Double gear drum drive, chilled, beveled gears! Drum rollers fixed to shafts revolving in big bearings!

It's useless to try to give you the smallest idea of what this Dandie represents in superior speed and construction details—but it's *strong, rugged*—it will stand-up for all the punishment you can give it, and *work* and *work*, and *work!*

And you have a chance to buy at a price that gives you all the benefit of the economies the Koehring Company effect by big, standardized production! If you had half an idea of what this mixer means in the way of actual value, you would send back the coupon for full detail by next mail!

Koehring Dandie—107-S. High speed charging skip, or low charging hopper with hinged steel framed platform which may be folded against mixer for hauling. Discharged from either side of mixer.

4 cylinder gas engine, radiator cooled, or optional two cylinder engine, hopper cooled. Drum drive transmission in oil bath. May be equipped with *automatic water measuring tank*, and *Light Duty Hoist.*



Send Back this Coupon!

KOEHRING COMPANY
Dept 4, Milwaukee, Wis.

Please send me by return mail complete information on Koehring Dandie Light Mixer. Also price with equipment as follows:

_____

_____

Name _____

Address _____

KOEHRING COMPANY MILWAUKEE WISCONSIN

PAVERS, MIXERS—GASOLINE CRANES, DRAGLINES AND SHOVELS

Sales Offices and Service Warehouses in all principal cities

Foreign Dept., Room 1370, 50 Church St., New York City
Canada, Koehring Company of Canada, Ltd.,
105 Front Street, East, Toronto, Ontario
Mexico, F. S. Lapum, Cinco De Mayo 21, Mexico, D. F.

A-2829-I

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Residence of Ralph H. Knode, Ardmore, Pa. Thomas, Martin & Kirkpatrick, Architects.

"I want a house like that"

You hear this remark every day from prospective home buyers who have seen houses in which Lupton Steel Casements are installed. A house equipped with these windows always commands attention and reflects credit upon the contractor who erected it.

Our branches in all principal cities will gladly help you

FOR THE BASEMENT

And don't forget the popularity of Lupton Steel Basement Windows. Everybody demands them now-a-days. Owners want the additional light and air that Lupton Steel Windows bring. Made in three standard sizes – all easy to set. A dealer near you carries them.

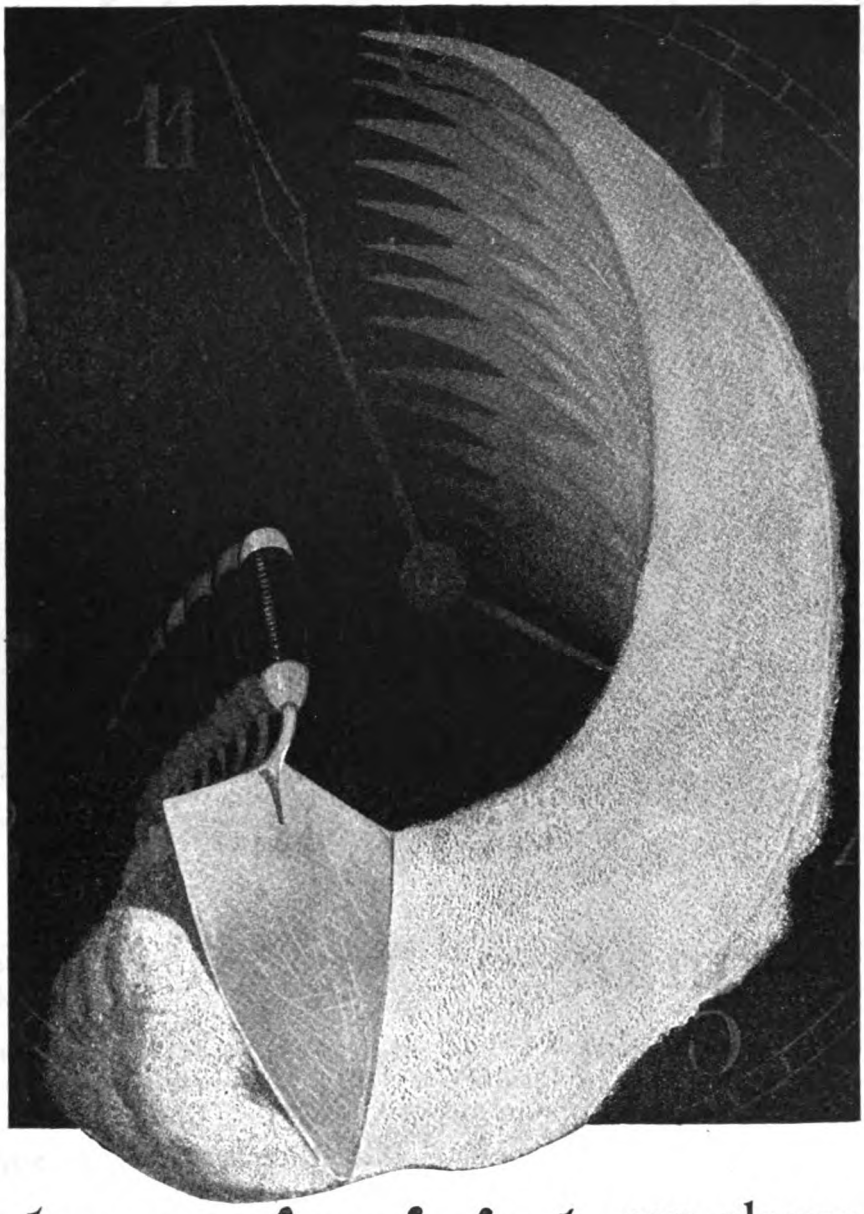
Use Lupton Casements in the houses you build. They are moderate in cost and are easy to install in any type of construction. What is more, by increasing your reputation as a builder who knows good materials, they bring you a bigger volume of building business.

Send for New Catalog C-122 which shows casement setting details

DAVID LUPTON'S SONS COMPANY
FOUNDED 1871 PHILADELPHIA, U. S. A.

LUPTON CASEMENTS of Copper-Steel

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Faster, easier joints can always be struck if BRIXMENT is used for mortar. As a result more and better masonry can be done. No wasteful waiting. Can be used immediately after mixing. Figure the economies for yourself. Try BRIXMENT on your next job.

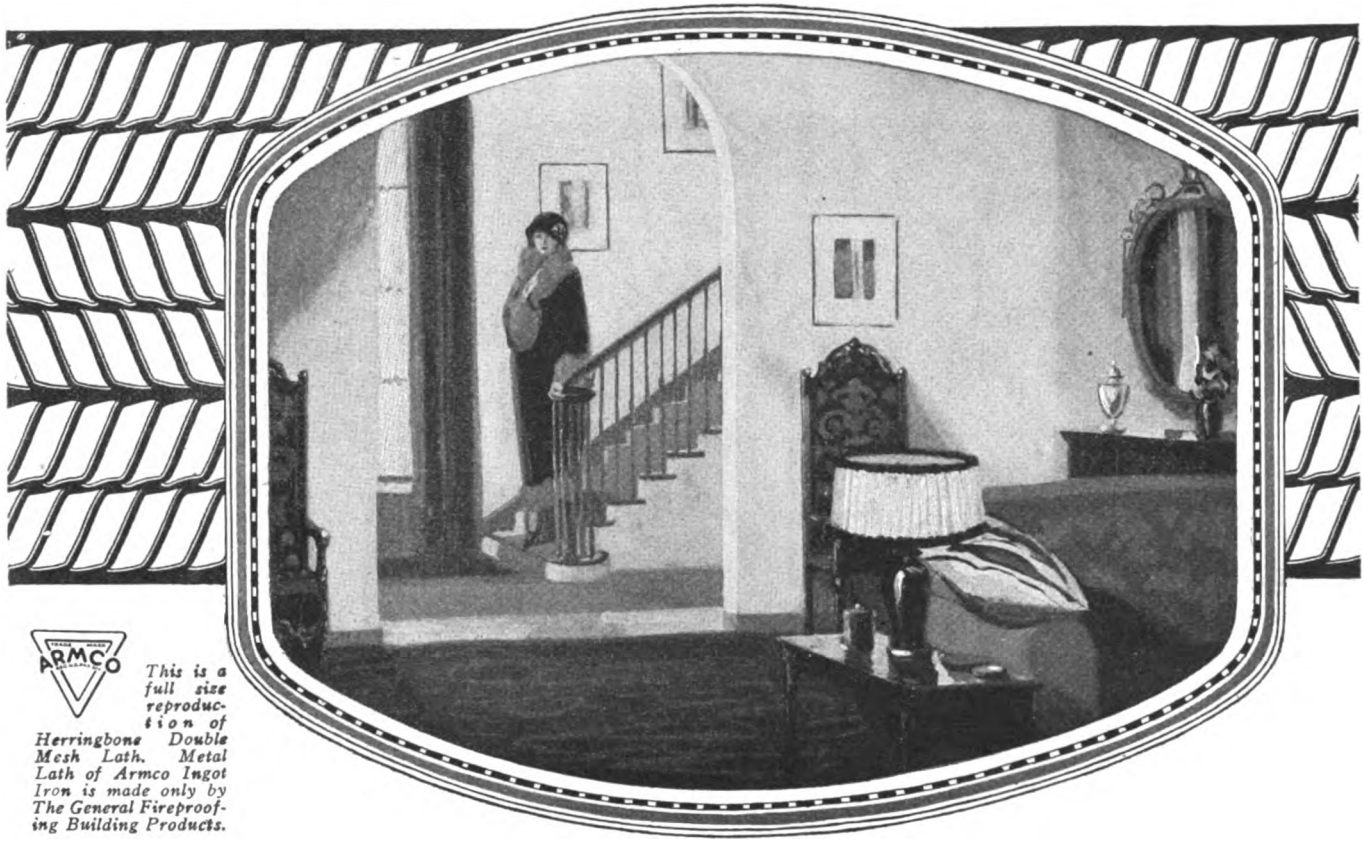
BRIXMENT is made according to a definite, invariable formula that insures a wall of maximum and uniform strength at greater economy of time, labor and material. No lime. No slaking. BRIXMENT is sold through dealers. If there is no BRIXMENT dealer in your town, write to us direct. *Louisville Cement Company, Incorporated, Louisville, Kentucky.*

for Better Masonry

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Beautiful, Unblemished Interiors



ARMCO

This is a full size reproduction of Herringbone Double Mesh Lath. Metal Lath of Armco Ingot Iron is made only by The General Fireproofing Building Products.

Made Permanent by Herringbone

LATH streaks, checking, cracking—these are the things which rob sidewalls and ceilings of their original beauty.

But *not* when the plaster is reinforced and preserved by Herringbone Metal Lath.

Herringbone possesses definite advantages over other metal lath. It has a small fine mesh which gives a better keying surface, and which saves both plaster and labor. Sudden jars, warping of wood support or settling cannot loosen its grip, and its fire resisting qualities are well known.

National advertising is selling the advantages of Herringbone to prospective home owners and they will gladly pay the slight extra cost for the protection Herringbone affords.

Write for a copy of "The Herringbone Handbook"

THE GENERAL FIREPROOFING BUILDING PRODUCTS

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Branches: New York · Chicago · Philadelphia · Boston · Cleveland · Los Angeles · St. Louis
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Self-Sentering — A combined form, lath and reinforcement for concrete floors and roofs.

Trussit — A reinforcement for solid partitions.

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GF Steel Tile — For concrete floors.

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GF Steel Channel — For fireproof partitions and ceilings.

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Member National Council for Better Plastering

BETTER PLASTERING — METAL LATH TO REINFORCE AND PRESERVE

GF Herringbone Doublemesh Lath

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Building Age
National Builder
With Which is Incorporated

The Permanent Builder and The Builders' Journal

New York, August, 1925

EVER mindful of the best interests of the big industry we serve, we leave no stone unturned to give our readers the best in editorial content.

For this reason we announce with much pleasure and pride the acquisition of Lieutenant-Colonel Ernest McCullough on our staff as Editor—our readers will recall his many contributions to our pages.



ERNEST McCULLOUGH

Col. McCullough, who holds the degrees of C.E. and Ph.D., has had a remarkably full experience in engineering work of many kinds and has specialized in the construction of buildings and bridges. He spent 27 months in France as Major of Engineers during the war, returning with the rank of Lieutenant-Colonel.

Most of Col. McCullough's professional life has been spent in private practice, but as assistant to the late F. T. Newberry he was one of the designers of the famous Sutro Baths of San Francisco and was superintendent of construction and engineer in charge of the construction of the baths. He held a similar position with Ernest Ransome, patentee of twisted steel bars for reinforcing concrete, and assisted in the development of the Ransome formulæ when reinforced concrete was in its infancy.

Col. McCullough has contributed largely to the building, architectural and engineering press and is the author of 16 books. Perhaps the best known of these are, "Reinforced Concrete, a Manual of Practice," "Practical Structural Design," "Practical Surveying," "Engineering Work in Towns and Small Cities," and "The Business of Contracting." His broad grasp of general economic subjects is evidenced in his book, "Everybody's Money," which has attained a sale usually unreached by even popular works and which is now being translated into French and German. For the past 18 years Col. McCullough has been listed in "Who's Who in America," and holds full memberships in the Am. Soc. C. E., French Soc. C. E., and the Inst. of Struct. Engineers, England.

So many engineering problems arise in modern building and these are increasing so in numbers and magnitude that we feel it incumbent upon us to provide our readers with authoritative information from the best available sources. In offering Col. McCullough this post we are certain that our aim will be achieved.

Col. McCullough is thoroughly in sympathy with the sound principles which guide the editorial conduct of BUILDING AGE AND NATIONAL BUILDER; he is fully aware of the high place our readers hold in the building world and he will give freely of his ability and experience to uphold the one and to inspire and inform the other.

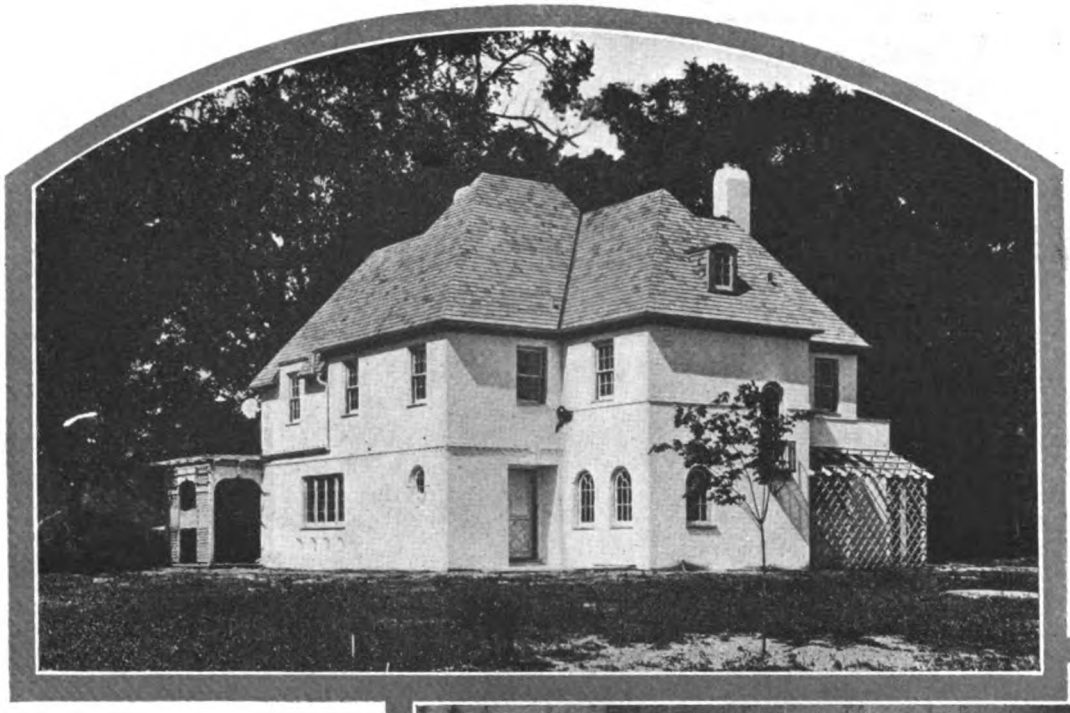
It is precisely this character of editorial service which has enabled this publication to enlist under its banner the largest body of active and important subscribers ever assembled in the paid subscription list of an industrial magazine.

The publishers of BUILDING AGE and NATIONAL BUILDER are firmly of the opinion that the editorial side of this magazine is of supreme importance. They are pledged to continue their efforts to increase its usefulness to its veritable army of readers.

Charles S. Peket

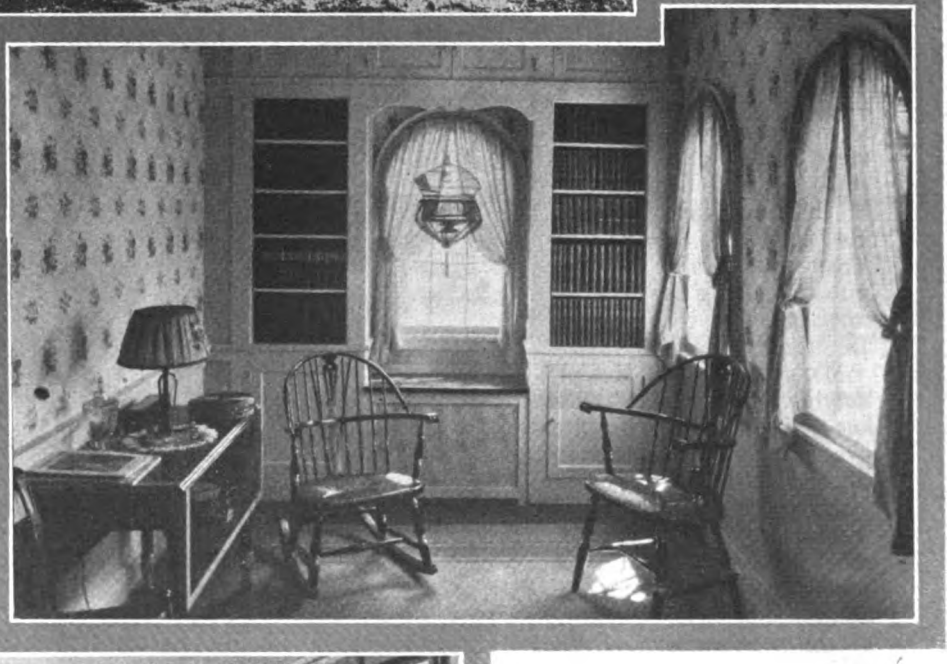
Editor-in-Chief.

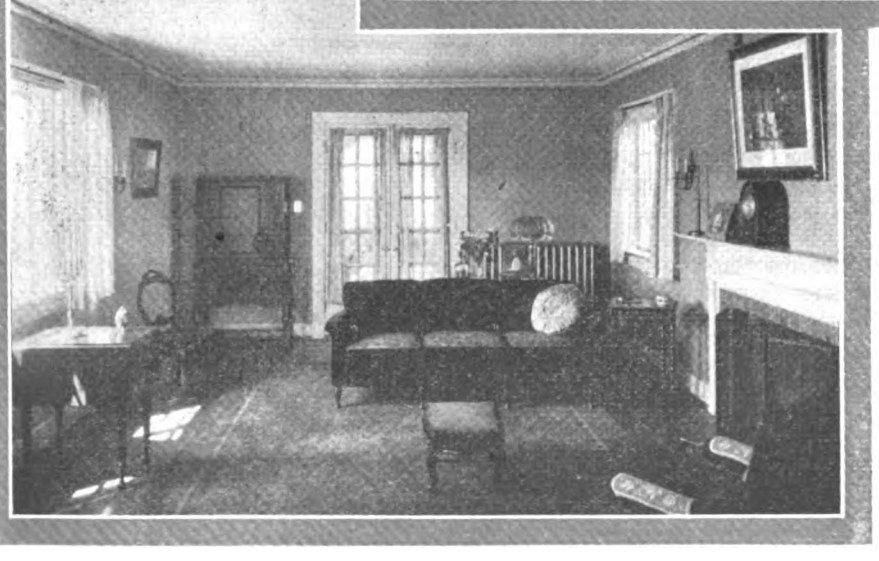
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HERE is as trim a house as might be desired. It is also one of unusually rugged and weatherproof construction. Its owner made that fundamental requirement and the architect saw to it that beauty and dignity would be enduring. A fine example of good construction resulted.

The HOUSE of the MONTH



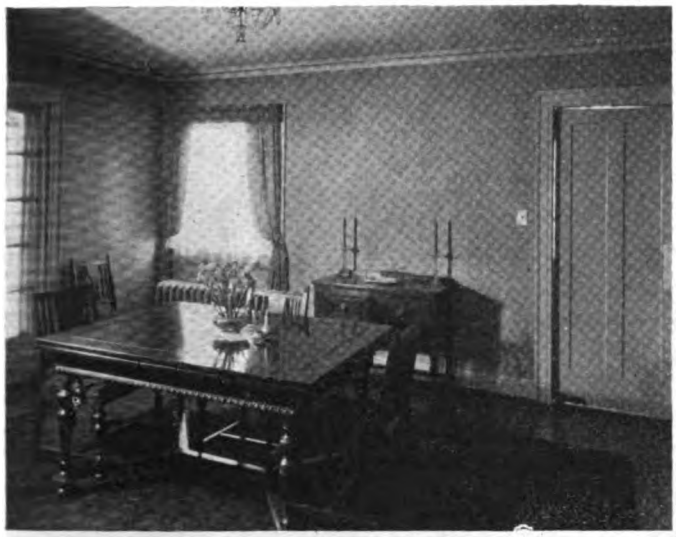


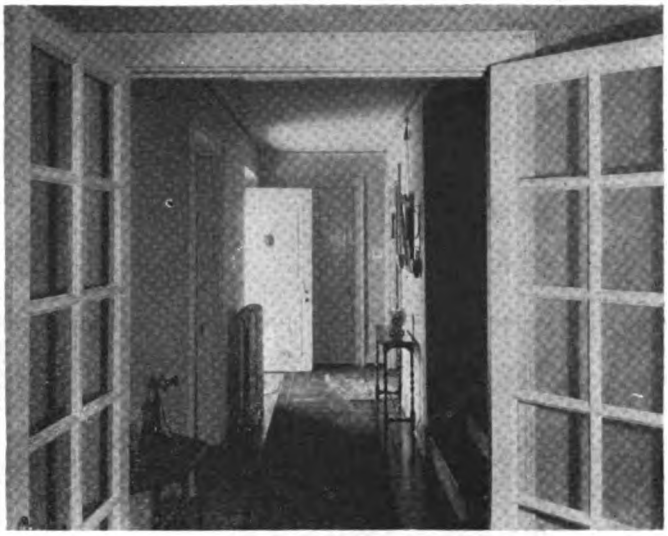
Home of
Mayor A. P. Minshall
Chillicothe, Ohio

—·—

Miller & Reeves
Architects
Columbus, Ohio

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By A. J. R. Curtis

WHEN Addison P. Minshall, Mayor of Chillicothe, Ohio, commissioned his architects to prepare plans for a new home, he specified that, in addition to having an attractive home, his must be one of unusually substantial construction.

That the result of the architects' work is charming is evident to all whose attention is turned to the photographs shown here. Strength and durability of the building has been brought out, moreover, during its occupancy by Mayor Minshall and family. It has equalled the early expectations in that it "is structurally sound, fireproof and warm, and of dignified appearance."

Duntile, manufactured by P. Brewer & Sons Company, of Chillicothe, was used for the walls from footings to eaves. These units, which are 12 inches long, 6x6 inches or 4x4 inches in section, provide a circular horizontal air space. The 13½-inch walls in the lower portion and the 9½-inch walls in the upper portion of the structure provide triple air spaces in the masonry.

The former were produced by building two bonded parallel walls of 6x6-inch tile with 1½-inch air space between and the latter by building similar walls of the 4x4-inch tile.



This shows the house before stucco was applied. Duntile blocks were used throughout with trim of precast concrete stone

Mr. Minshall's attention was attracted to this type of construction by the satisfactory performance of a refrigerator building erected during the previous year.

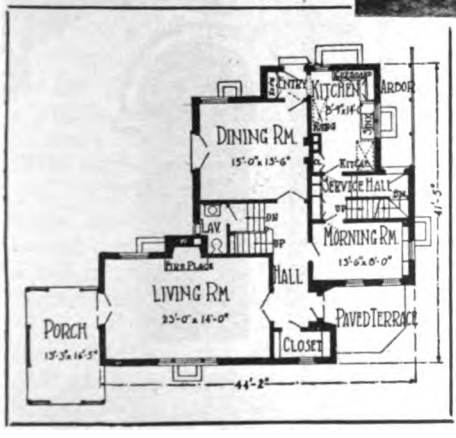
Although the house is located in a very exposed location and was plastered during the winter, the only heat provided in the house by the plasterers during that operation was a fire in the living room fireplace maintained in the daytime only. This was sufficient to hold the interior temperature well above freezing over night. Needless to say, since occupancy it has proven dry and warm, comfortable and economical of fuel.

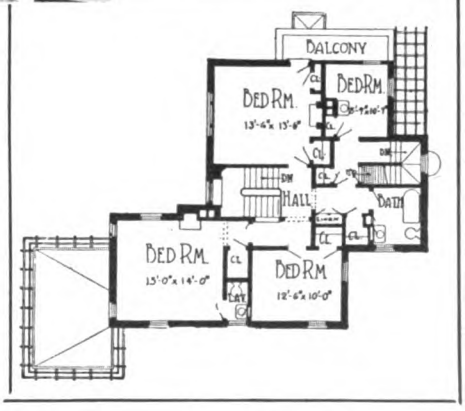
Standard construction detail were followed throughout. Pre-cast concrete stone was used as trim, contrasting pleasantly with the cream-colored cement stucco, applied in a soft mellow texture.

Owner and plasterer were impressed with economy of stucco and plaster due to accuracy of tile in size and shape and the consequent trueness.

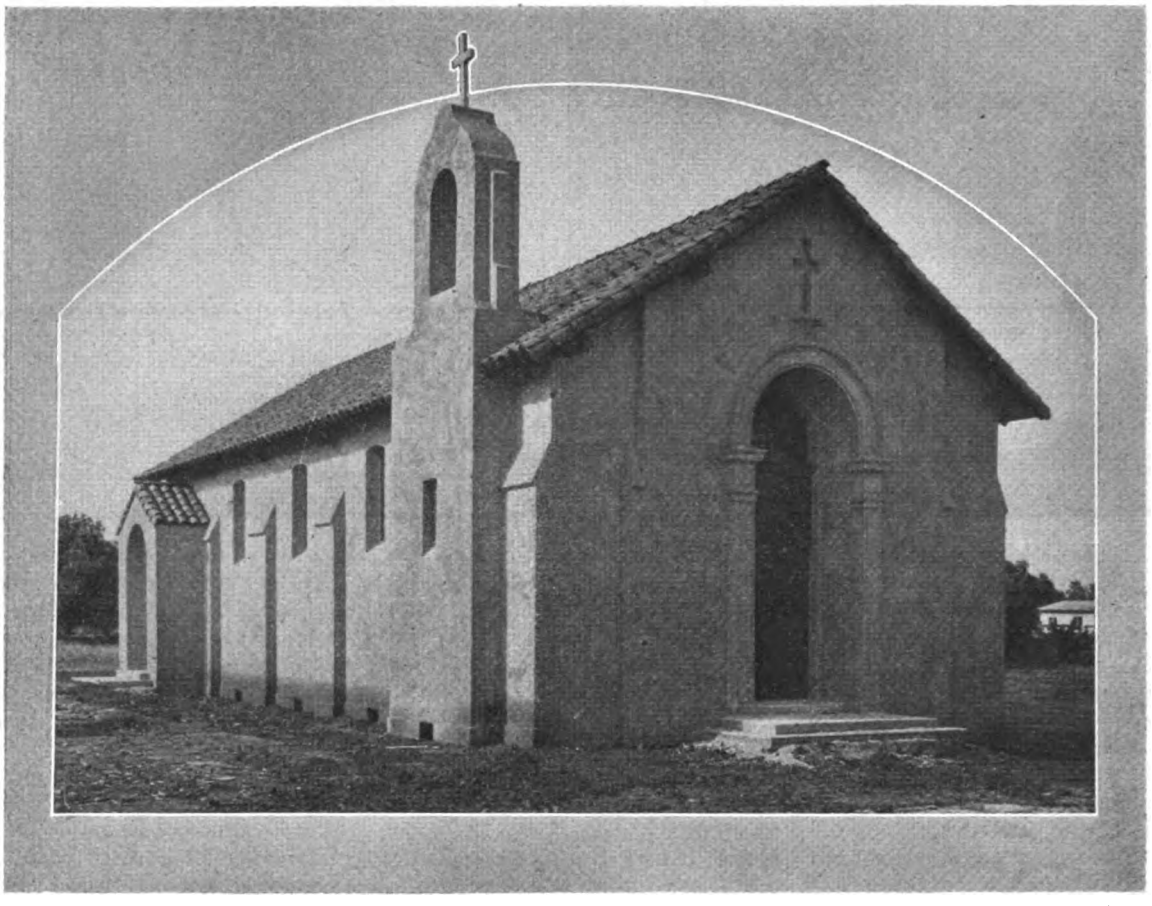
Floor joist construction is of wood, protected with metal lath and finished with hard plaster. Roof is laid with Creo-Dipt shingles of variegated colors ranging from gray to apple green.

Messrs. Miller and Reeves of Columbus, Ohio, were the architects.





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Inspired by the Spanish Padres

St. John's Episcopal Church *of* Chula Vista, California

Told by J. Harold Hawkins

WHEN the conquistadores swept their way across the lower end of North America, they left behind them the wreck of an ancient empire. We think of Mexico's early history in terms of cruelty and selfish conquest. But let us not forget that these same Spanish generals also left behind them a heritage that now comprises the civilization of our neighbors on the South.

There followed in the wake of conquering troops, Spanish Fathers who brought with them the religion of their parent country. Thus we have old Spanish Missions in our southwest; a chain of beautiful old churches scattered here and there along the coast far up the State of California. Their style of architecture we have welcomed and adapted to the climate wherein it had its founding.

The Spanish Mission is our gain from those same conquerors who destroyed one civilization and founded another. In Southern California there is no architecture more fitting than that which newly follows the old lines brought to this southland by the gray-robed Fathers for their missions.

Successfully adapting the old mission atmosphere in architecture to modern requirements is not always an easy task, but in a little church around the corner in Chula Vista, ten miles from the Mexican Border, the adaptation of Spanish Mission architecture has been most pleasingly achieved. T. C. Kistner, architect, of San Diego, California, is responsible for the creation of this

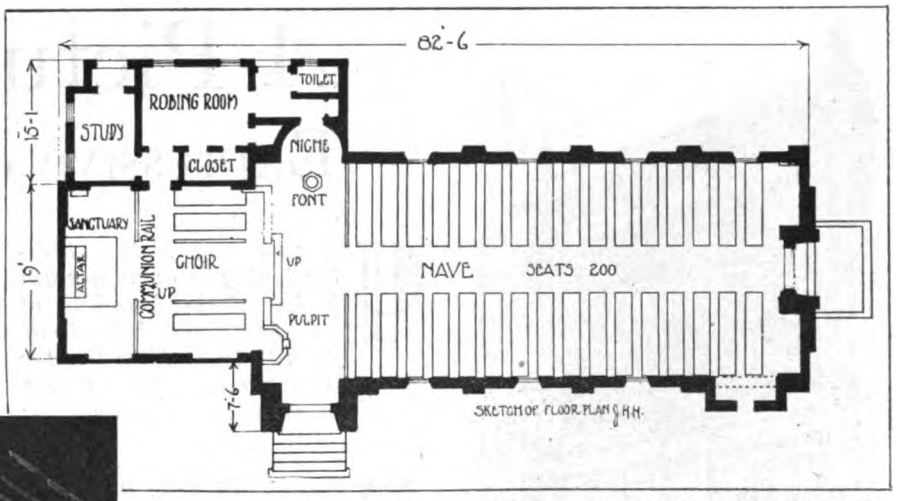


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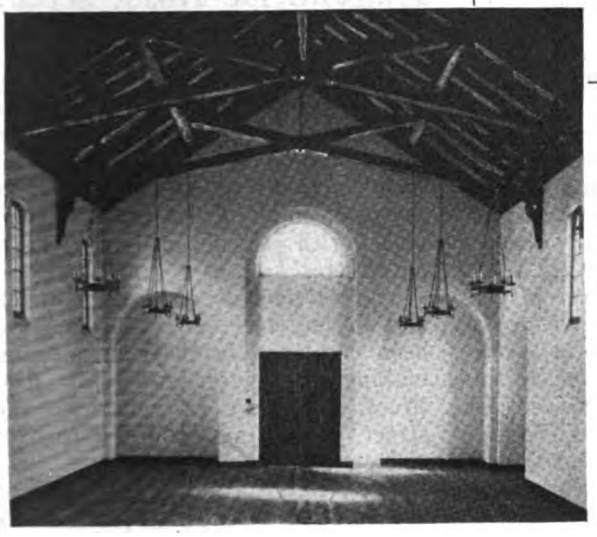
T. C. Kisner, Architect
San Diego, Calif.

truly delightful little Episcopal church—St. Johns.

The construction of St. Johns is a veneer of hollow tile over which is plastered light brown stucco. The surface is fairly rough, imitating the handiwork of the builders of the first mission in America, which mission is located not more than ten miles north of St. Johns.



HERE is shown seating capacity for two hundred. Also, there is brought out the useful arrangement of choir and sanctuary in relation to nave.



NAVE of St. Johns before benches were installed. Dark-stained beams, amber window glass and soft glowing electric candles create a mellow, restful air so fitting to the Spanish Mission

The plain, rather flat roof of the new church is covered with variegated tiles, the shades running into blue, yellow, orange, and red, the latter predominating. The exterior door and window frames are painted a soft, singing blue. Heavy, dark-stained timbers protrude under the end eaves and along the sides.

The interior truss work that supports the extra weight of the tile roof is of exposed timbers, thus following the mission idea within as well as without. Some idea of the charming result effected in contrasting these dark hand-adzed beams with creamy walls, may be gained from the photograph. Exposed supporting timber work is always popular in this country, but seldom is it brought out to such excellent advantage as it is in this personable little church.

The low steeple, supporting a gold cross, is well proportioned and an arched opening in the steeple frames a bell in true mission fashion. The front entrance is arched, and square pillars in relief make a dignified frame for the pair of simple doors and an interesting transom. This half-circle transom, with its square panes of stained glass, admits a soft glow to the interior at the end of the nave.

The side entrance is yet more simple in design, although it is arched and has a fan-light transom over the swinging doors. A small vestibule with an independent roof of tiles, at this side door helps to break what might otherwise be a too monotonous straight side to the building. As the plan will show, this well designed entrance has the added advantage of giving access to the front end of the nave.

The roof of St. Johns is higher over the nave than over the other portion of the church and the nave floor is lower than that of the space for the choir and sanctuary. This difference in levels lends the required height to the nave walls. The pulpit is on the choir platform, near the side door.

There are two outside doors on the side of the building facing away from the street, one leading from the study—located in the corner of the church—and one from the lavatory vestibule. Although the overall measurements of St. Johns are but 46 x 83 feet, the little church is complete in its required details and the nave seats two hundred persons.

The small, cloister-like windows of St. Johns, as well as the door transoms, are glazed with amber stained glass through which comes a soft, restful light. When the glow of a fading western sun finds its way into this tiny sanctuary, high lights, rich in golden tint, play upon the floor and cast a spell of mystic charm throughout the nave.

The main lighting fixtures are in the form of electric candles set in swinging wrought iron chandeliers of real artistic merit.

This ecclesiastic structure has but recently been completed and no grading had, at the time the photographs were taken, been done. After the plot is sodded and foundation planting and vines are arranged to relieve the bareness of the high, secluding walls the little mission church will be a jewel of real beauty.



SMALL paned windows, colorful tiles and a fan-light transom lend distinction to the side entrance. The door leads past the pulpit to nave

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A Picture House
Expressive *of its* Purpose

The moving picture theater to-day is an important factor in the founding of an American School of Architecture. This theater is representative of the trend in that direction.

Colony Theater
New York City

Eugene De Rosa, Arch.



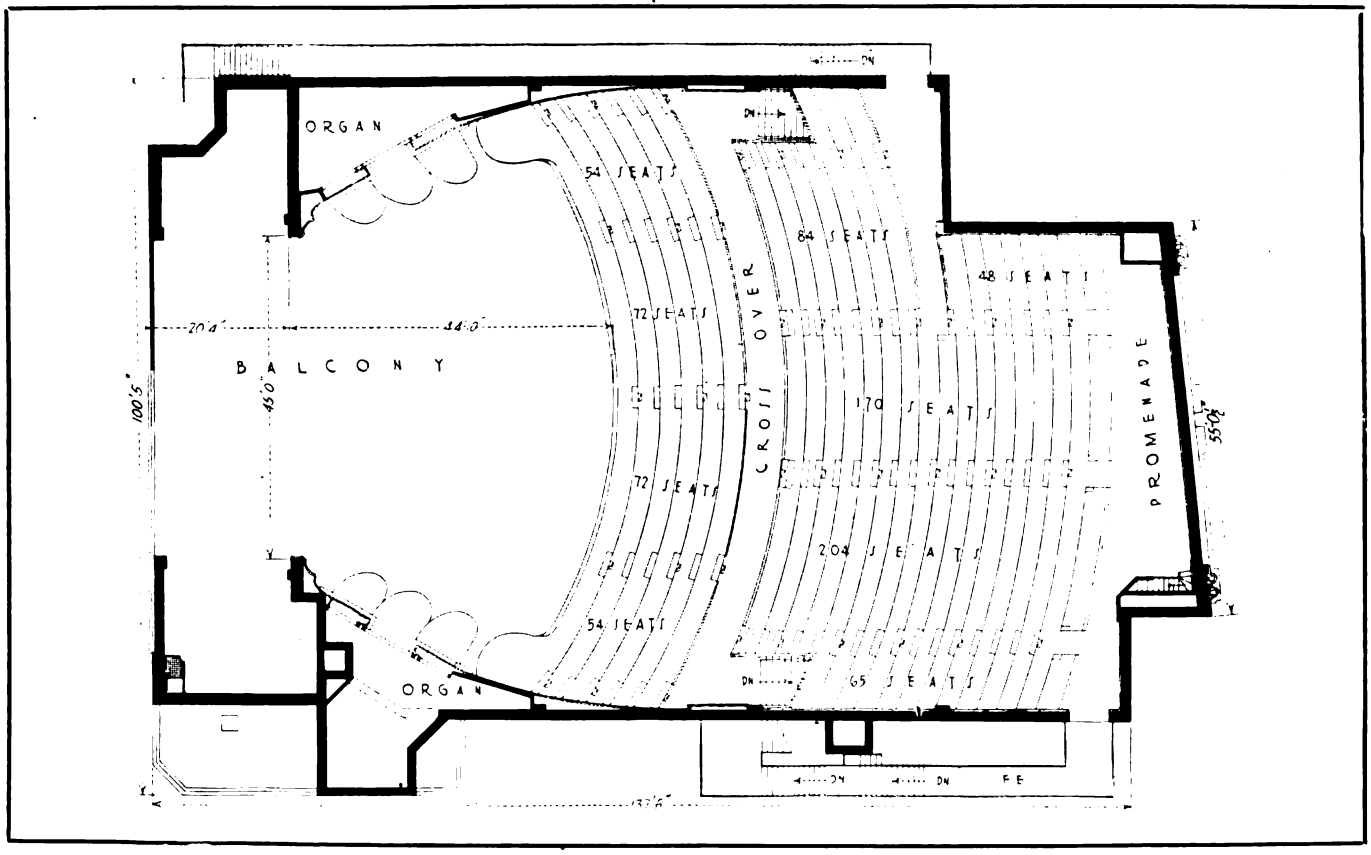
THE sign illuminating the front is actually an integral part of the building design. It is surely a far cry from the ugly signboard of a decade ago to this harmonious feature combining grace and utility in one

WITH the phenomenal growth in popularity of motion pictures during the last score of years a new type of theater has come into being. Among the newest and most striking of these is B. S. Moss' Colony Theater on Broadway, New York City. This house, which was opened recently, is the design of Eugene De Rosa, architect, of New York, who is by way of being a specialist in theatre architecture, having to his credit, among others, the Times Square, Apollo, Klaw, Coliseum and Cameo. The builders were M. Shapiro & Sons.

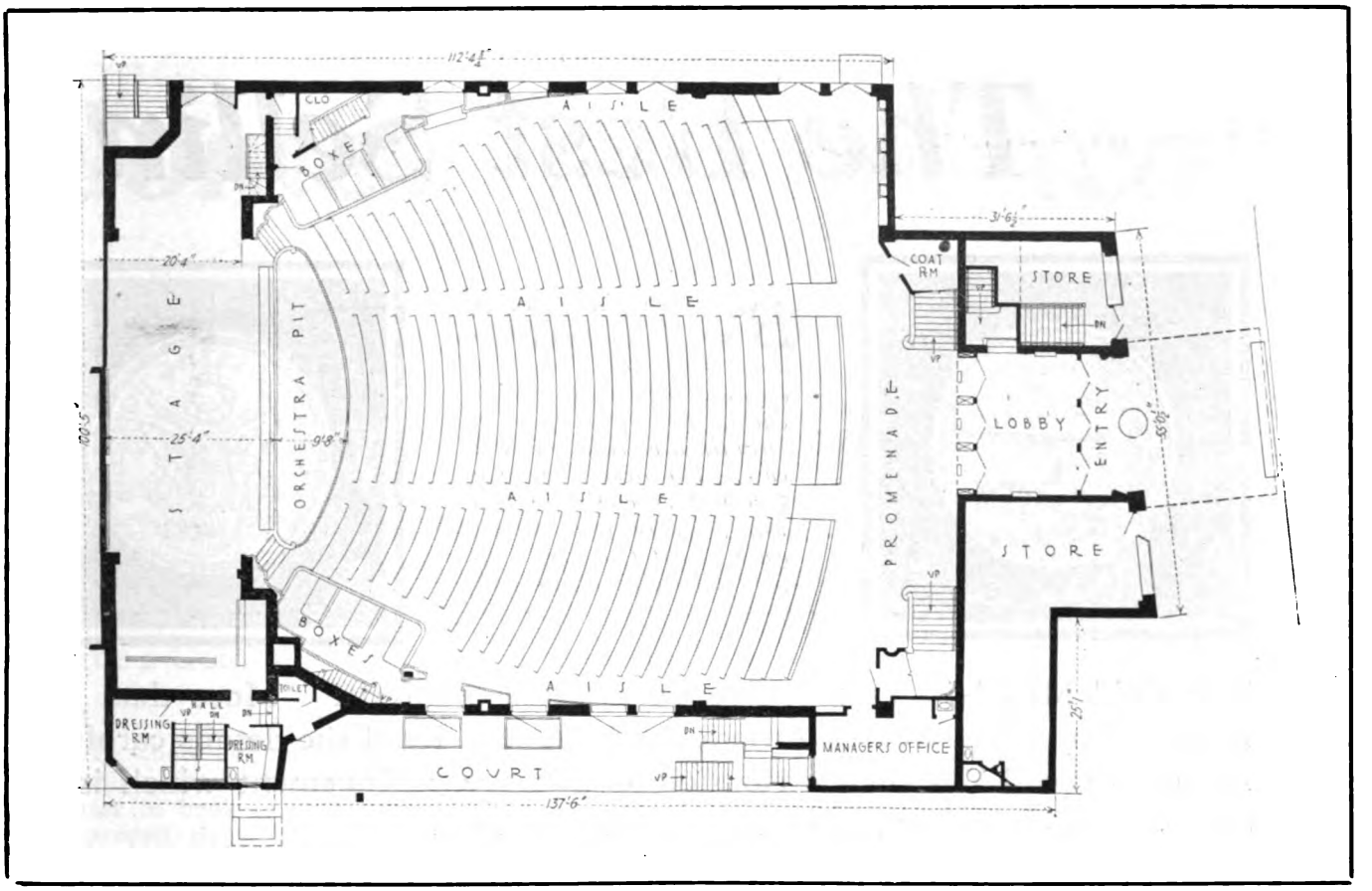
The Colony is in the Italian Renaissance style, with Tavernelle Fleuri marble predominating throughout. The color scheme blends gray, gold, bronze and cream white, into a harmonious whole. It has a seating capacity of 2,500 persons, with ample aisles, promenades, etc.

The exterior is of grayish brick and brick; steel and concrete have been employed in the construction, making the house thoroughly fireproof. Eighteen exits lead to the street, permitting the entire theater to be emptied in three minutes.

A striking and unusual feature of the exterior is the incorporation as an integral part in the design of the



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electric house sign and the extension of the idea to the marquise and its attraction signs. A definite recess has been provided in the building for the house sign, and this recess has been treated architecturally, while the design of the sign has also been under the architect's control. This complete harmony is insured throughout the facade.

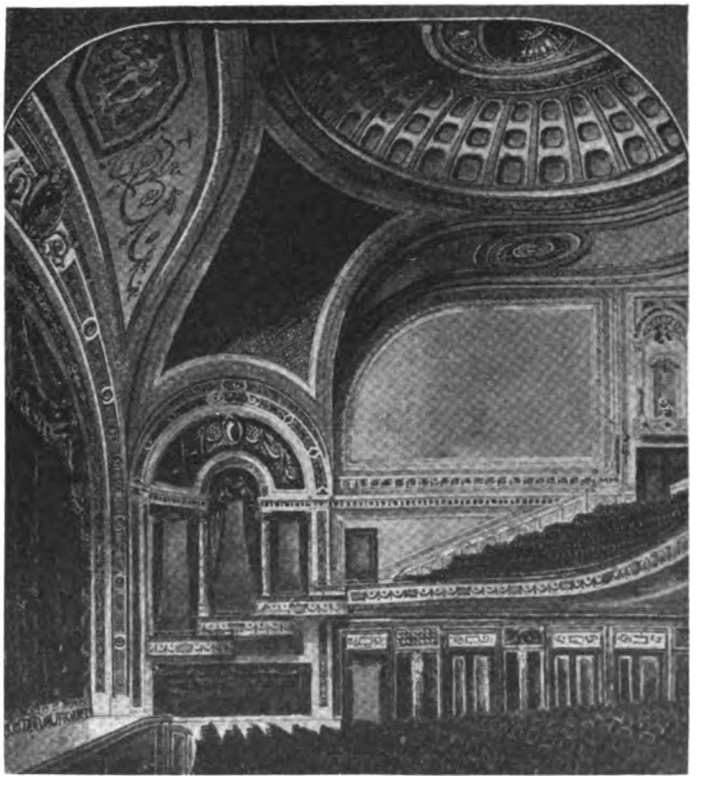
The ticket office at the entrance has been constructed of bronze and marble to conform with the treatment of the building, and the marble and bronze work in the lobby results in an effect of fine dignity. Above the lobby there is office space of 1,150 square feet.

The interior is strikingly handsome. The walls show a superb treatment of matched French and American walnut wainscoting, and the rich effect is further enhanced by massive French mirrors in bronze frame deftly disposed.

In front of the theater is a novel and attractive sidewalk of colored cements laid in alternating squares in which sparkle chips of Alundum. In addition to providing a decorative effect these chips render the sidewalk slip-proof, protecting patrons and pedestrians in inclement weather.

The heating and ventilation are of the most modern type, 150 H.P. Fitzgibbon boilers being used, and the air being purified by an air washing and humidifying system. An intricate atomizing process sprays the theater through a nozzle capable of 1½ gallons of purification per minute. A refrigeration plant takes care of summer cooling, and a great Typhoon exhausting 124,000 cubic feet of air per minute has been installed.

THE interior details are borrowed from earlier periods and are accurately interpreted. Here and there, however, the modern touch marks the design as one depicting a new school of theatre architecture purely American



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The Best Selling



BOTH sides of the Solid Gold Medals are shown here. Each medal is mounted on a purple velvet background placed in a satin lined morocco covered case. The design is by a foremost specialist in this work, insuring a perfect work of art that the Winners will be proud to show



Ten Gold Medals! Twenty-five Certificates of Merit! More than One Hundred other awards to America's Builders! Read the details carefully. Be sure to send YOUR contribution to this great Movement which is inaugurated to help you sell more and better homes.

THIS IS TO CERTIFY THAT

HAVING DULY ENTERED INTO COMPETITION WITH FELLOW BUILDERS FROM ALL PARTS OF THE UNITED STATES FOR SUCCESSFUL ACCOMPLISHMENT IN BUILDING ONE OF THE

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IS HEREBY AWARDED THIS

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FOR HAVING ERECTED DWELLINGS WHICH MEET THE REQUIREMENTS OF ARCHITECTURAL BEAUTY, SOUND CONSTRUCTION, PRACTICAL UTILITY AND PUBLIC ACCEPTANCE AND THAT HE IS ENTITLED TO FULL RECOGNITION FOR THIS ACHIEVEMENT FROM HIS FELLOW CRAFTSMEN AND AMERICAN HOME OWNERS

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The full size of the Certificate is 12" x 18" engraved in Sepia on Parchment

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Homes in America!

Gold Medal Awards!

THE great attention attracted to our "Best Selling Homes" campaign has prompted us to increase the awards. To the first ten there will be awarded ten solid *Gold Medals* IN ADDITION to our previous offers. Here, then, is a remarkable opportunity for every builder to enter the photos and plans of his best selling homes and, if among the successful first ten, to become a Gold Medal Builder of America!

OUR whole aim in promoting this campaign is to publish, first in the magazine, and later in book form, those homes which have *proved* their salability by public acceptance. Then every subscriber will have at his disposal designs and plans which will appeal most strongly to prospective home builders. You will have *known successes*—the cream of America's popular homes.

You, and every other successful builder, have found that certain designs and plans have sold more readily than others. Photos of those homes are in your possession now. It is only necessary to dig them out, send them with the plans and a statement telling how many were sold, where they are located and the selling price of each. The figures will not be published if you so desire. That is all there is for you to do. Don't hesitate because you feel that you will have no chance. In a matter of this kind you never can tell. The awards usually go to those who "had no chance!" You *will* have a good one.

We want this collection to be representative of homes in all price ranges. We want it so complete that you can confidently recommend any design to a prospective customer on the ground that if he wishes to resell he can readily do so because his house will be one of the best and easiest selling homes in America.

You can plainly see that such a collection means much to you and every other builder. You can also see that you should do your part—send in your contribution—in order to make the collection thoroughly representative. So, today, now, while your mind is on the subject, get out your successes and send them in. Read the simple conditions governing—and *act!*

Note the reproductions of the medals and certificates. You may well be proud to have one or both of these in your possession. It will be a standing advertisement of the first water; a mark of distinction to you and a source of pride to your community. Your local papers will receive the story from us and will no doubt be glad to publish the news. From every angle, it will pay you to enter a contribution. But—and we must emphasize this point again—let us hear from you at once.

More Than 135 Awards!

Just read the list of awards below. There are more than 135 of them to go to more than 50 contributors. Your opportunity to be among the "elect" is splendid. To be there is to be among the famous home builders of America.

How You Can Participate In This Campaign for Better Built Homes

SIMPLY send us: A statement telling how many of each were sold, where they were located and the selling price of each, and a photograph of the house or houses which have proved to be "best sellers" with you, together with the floor plans.

We will recognise your courtesy in sending us material for publication in this way:

1—To the ten selected as "first" we shall present (a) a gold Medal; (b) an engrossed Certificate of Merit; (c) a life subscription to Building Age and National Builder; (d) a copy of the Book of Designs.

2—To the next fifteen (a) the Certificate of Merit; (b) a life subscription to the Magazine; (c) a copy of the Book.

3—To the next twenty-five (a) a year's subscription to the Magazine; (b) a copy of the Book.

4—To all others whose entries may be published, a copy of the Book.

5—No entrance fee is required.

6—The Editorial Board of this publication will pass on the facts submitted and make the selections.

7—Any information marked "confidential" will not be published.

Address "Editor, Best Selling Houses,"

BUILDING AGE AND NATIONAL BUILDER
239 West 39th Street, New York

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Nine Miles of Real Homes

Is the Record of Indiana's Largest Builders



Introducing F. C. Keller, one of the partners of the original Whitcomb & Keller Co., now President of the organization



And L. C. Whitcomb, the other pioneer among Indiana's speculative builders, now Secretary-Treasurer of the company

By C. N. Pollock

WHY, the question is so often asked, do some building contractors achieve success from an insignificant beginning while others go down to failure or at best reap only the smallest of profits? Though the solutions to this problem involve many factors every builder success, however large, may be attributable to one or two well defined basic reasons. Financing out of profits, cutting costs to a minimum, establishing a reputation for reliability — these probably are the major factors in the success of the speculative builder.

Here we find two builders, of South Bend, Ind., who have reached an enviable position in the building world from a relatively unimportant beginning twenty-five years ago. The Whitcomb & Keller Company, it was called, and the organization still bears that name. In the best years of their early activity a small office force and few well selected workmen sufficed their personnel requirements. Even ten years ago seven office employs were sufficient to plan the two score houses a year, a record at that time.

To-day, four times that number map out the work for a small army of skilled and unskilled mechanics on the job. And 250 houses are added each year to South Bend, Ind. real estate by the Whitcomb & Keller Company.

Let us look into this interesting history of methods that have affected these results.

First, very little contract work has been included in the activity of the company. It has been their practice to develop land and property before the houses are placed on the market. They first select the land with regard for transportation facilities and location within good residence districts. Moreover, the land must be high to permit good drainage.

When the location has been decided every effort is put forth to have all improvements installed as quickly as possible. Gas and water mains go in, closely followed by gas pipes, curbs and walks, electric wires and finally the pavement. By the time this last has been completed the work on the houses, carried along with the development, is just about finished. The property is entirely ready for buyers!

From first financing to the selling of each home, Whitcomb & Keller Company does not have to move outside of its own limits. Just as the company had been built up from its own profits, it handles its own home-financing.

It is entirely adverse to their policy to discount contracts. The result is that they offer the prospect a home at an unusually favorable price. To indicate the enormity of such a task, their account shows more than $2,000,000 in contracts now held by the company in safety deposit. This is one of the features largely responsible for their phenomenal success.

To cut down further all unnecessary expense, every bit of house designing is done in a plan department



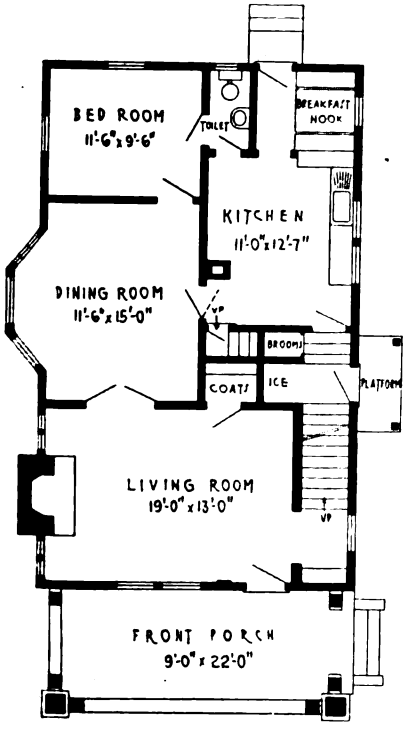
TYPICAL house built by the Whitcomb & Keller Co. The floor plan shown on the opposite page is one of six that prove the most popular. Any one of them, the company adapts to such an exterior as is this one

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in the company's own offices. While a certain number of plans are duplicated throughout the year, every effort is made to vary from stock types. An exterior of beauty with a commodious interior are the aims of the designing department.

Four types of architecture are the most popular; namely, New England Colonial, Dutch Colonial, English and Western. Six plans have been found to be the most popular and these are available in each period design. Whitcomb & Keller Company erects about five two-story homes to every one of the cottage type; six and seven room plans are easily the most popular with prospects. In arranging houses on a development, great care is exercised



A FEW hundred feet of the 9 miles of homes that the Whitcomb & Keller Co. have built. Notice the splendid harmony of designs effected

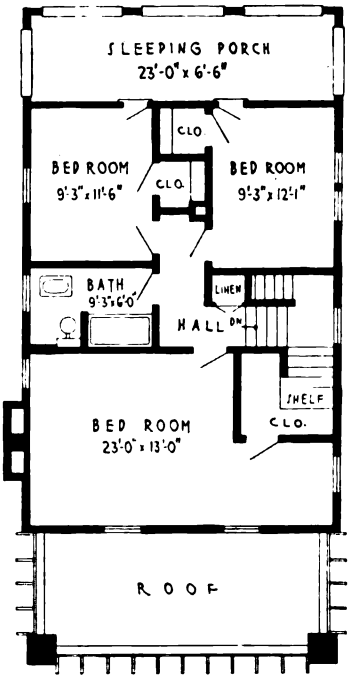
in selecting designs that will harmonize with the neighboring buildings. No houses are put up in too close proximity to the street line. Prices range from $5,000 to $12,000 for frame or stucco; excavated under the entire house with basement of concrete and face brick construction, and finished within in solid oak and enamelled woodwork.

These items concerning the Whitcomb & Keller Company homes will serve to show the excellent type of work it is doing. The average prospect prefers a $7,000 home.

Additional economy is found in the fact that very little of the construction work is sublet. An organization of artisans is kept intact practically throughout the year; some of the master workmen are employed on a yearly basis. All material is purchased in wholesale lots and this saving, in particular, is returned to the operation in terms of better quality and sounder construction. This is a definite policy of the company and one that is made possible by the executives' appreciation of good materials and expert labor. Needless to say, such practice pays for itself in added satisfaction.

The sales plan includes the practice of opening a development when everything has been completed. Then, backed by judicious advertising, the property is laid open for the inspection of prospects. Sales are made on a down payment of from 10 to 15 per cent and 1 per cent a month. A lenient financing plan is possible because, as previously stated, the company does not discount its mortgages. Sales and advertising expenses figure under 1 per cent of gross sales.

While the two original partners, F. W. Keller and L. C. Whitcomb still represent the present organization as president and secretary-treasurer respectively, two more are now included in the executive personnel: U. G. Manning, vice-president, and H. A. Robinson, second vice-president. During the life of the company, Mr. Keller has found time, in addition to his presidential duties, to serve four years as mayor of South Bend, Ind.



THESE two plans show how commodious and comfortable are Whitcomb & Keller Co. designs. This home features a large living room, one bedroom on the first floor, and three on the second. A sleeping porch is provided in the rear

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THE EDITORIAL PAGE

Prosperity Now and Future

PROSPERITY in the building industries is well reflected in the amount of new work contemplated according to June Building Reports. It was 54% greater than the amount reported in June last year! This argues well for our continued prosperity at a high rate for the balance of the year.

In point of actual contracts awarded, the increase over June of last year is nearly 40%. It is unusual for the June building volume to exceed that of May but we did so this year by about 9%. There is every indication from present signs that 1925 total will exceed 1924. Building *is* a good business.

The Realty Situation

REAL ESTATE conditions throughout the United States shows unprecedented activity with every assurance of prolonged prosperity. Ample capital is available at favorable rates. The suburban districts of our large American cities are being developed in a manner that is really marvelous.

The prosperity of many of our people have induced them to have additional homes besides the city home. Something at the seashore or country seems almost an essential now-a-days to the prosperous business man, and not content with this alone, many want a winter home either in Southern California or along the Florida coast, therefore, building and the real estate market in both these localities is very prosperous and better yet, the type of buildings that are being erected in these places are really masterpieces of domestic architecture.

Small Home Financing

ONE result of the visit of the American Delegation at the Fourth International Congress of Building and Public Works held in Paris in June, has been made public on the return of the delegation to this country. Bankers of the forty countries represented at the Conference were asked to devise a means to supply prospective home owners with funds payable over a long range of time, against the future earnings of the wage earner. Something good and practical should come from this and naturally it will mean the building of more small houses, the great draw back to which has been the inability to finance the small building operation at a reasonable rate.

Squabbling Workmen

IT is regrettable that the union men have taken to scrapping amongst themselves as a pastime instead of their usual one with employers. Much bitterness ensued between plasterers and bricklayers in New York and in other cities regarding internal union matters.

Nobody suffers more from this foolishness than the men themselves, and these petty squabbles unfortunately bring the whole building industry in disrepute with the public. We should all remember that it is the public that pays us our wages in the final analysis. If we make it hard for them to buy, we all lose.

It is not so many years ago that men in the building industry were glad to get any sort of a job and now, blessed with prosperity, they should remember those days and keep in favor with the public that has made their prosperity possible.

We sincerely trust that the better judgment of the more seasoned men will influence those of immature judgment. Let's be sensible.

Overcoming Man Shortage

ONE favorable result of the agitation to overcome the lack of apprentices in the building trade has been noticed in the figures recently given out by the Bricklayers, Masons and Plasterers International Union, which shows the number of journeymen and apprentices in this trade is rapidly increasing. Keep up the good work.

Old Homes Coming Down

CONDITIONS in places unaffected by petty squabbles continue in excellent shape. Many buildings are being planned in new sections. Old buildings are being remodeled and obsolete ones are being torn down and replaced with modern structures.

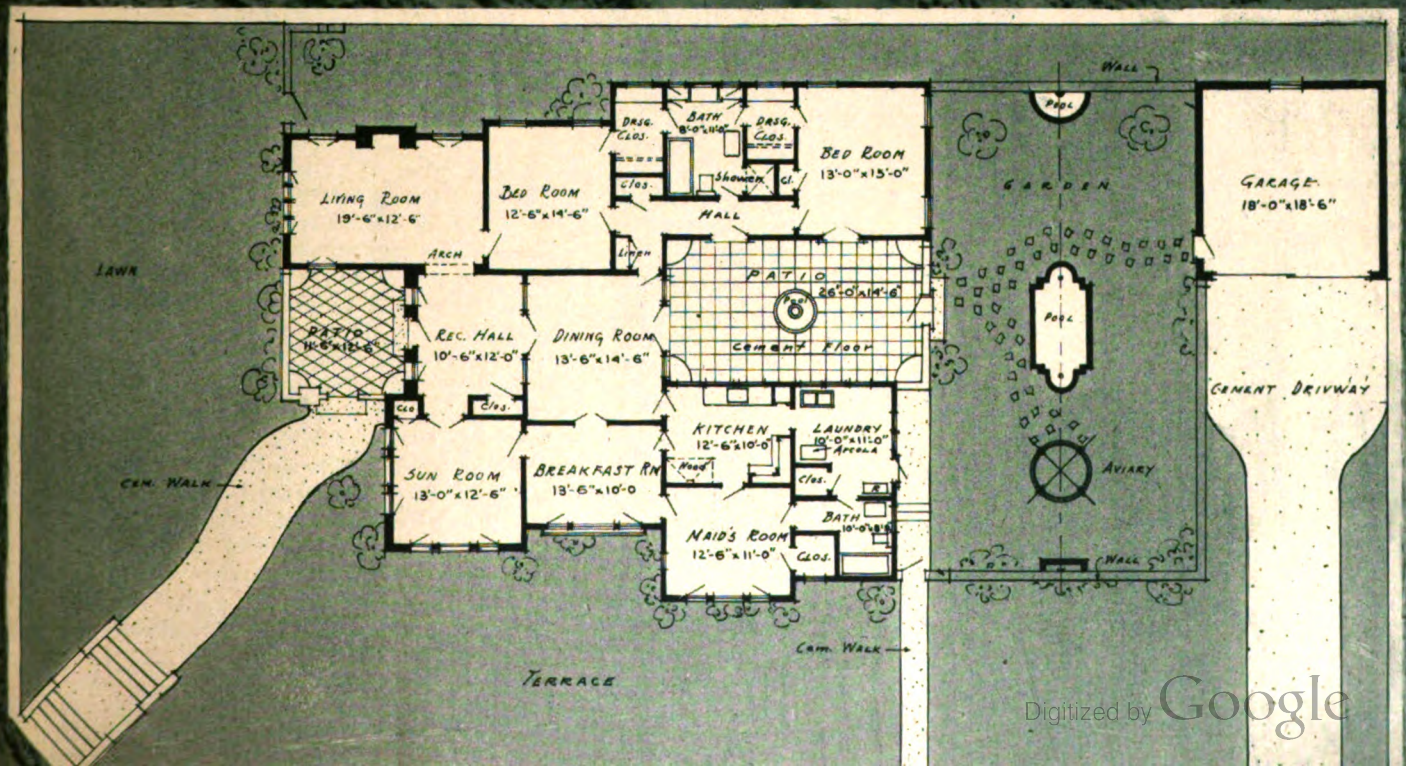
In New York City where the housing situation was very acute but a few years ago, conditions are changing as the shortage is being overcome. Many of the obsolete residential structures are now being torn down and replaced with modern factories. The old three-story apartment house gives way to a new 23-story modern loft building. The building industry switches from one type of structure to another as conditions demand.

When these beehives of industry are occupied, living accommodations must be provided nearby for the help required; therefore, another large amount of dwelling construction will be necessary to accommodate these additional workers.

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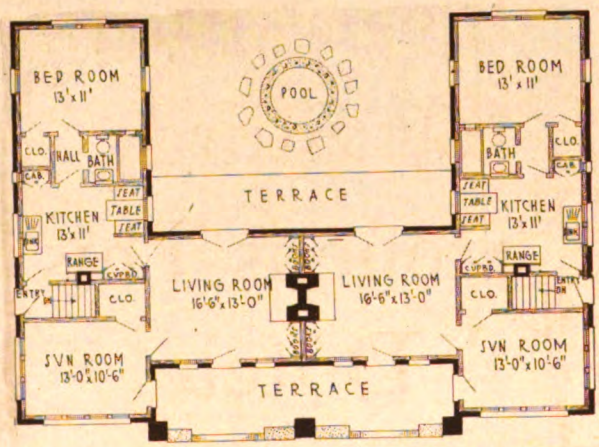
The Palatial Spanish in Californian Settings

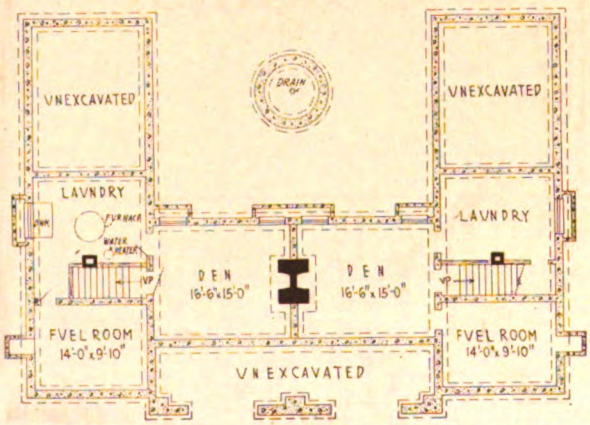


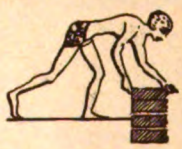
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Twin House *of* Brick



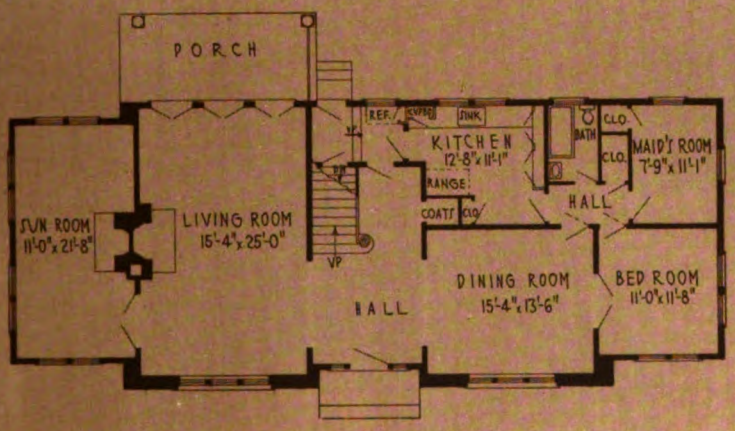




THE plan of this house was entirely original with the owner; his precedents were only those of good taste and appreciation of comfort and convenience. The result is a real home and an asset to its community. Its features are unquestionably found in the terraced front, finished basement and landscaped rear court. The exterior has been finished with face brick in a combination of seven different colors, laid in chocolate colored mortar and raked. M. E. Major, of Wichita, Kan., in addition to being designer and owner of this home, superintended the construction done by W. C. Gable and Son of the same city.

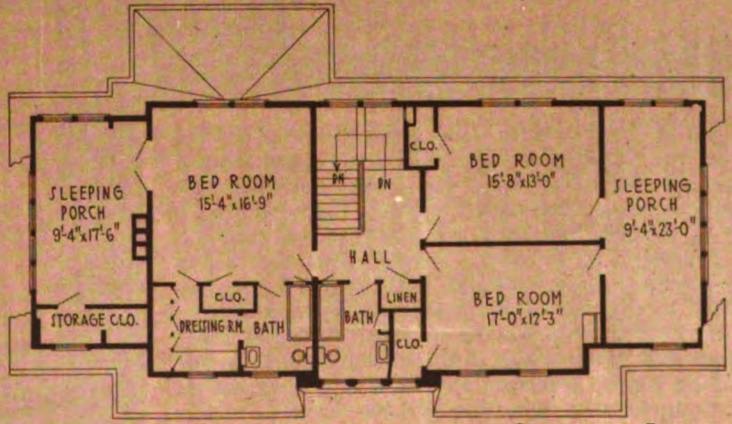
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Of Sturdy Stone is This Dutch Colonial

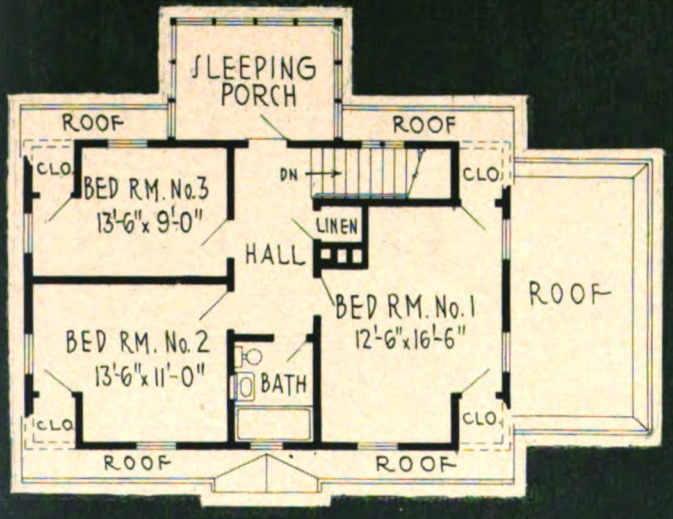
WHEN the Dutch built, they built not only for their present generation but for generations to come. In this solid home we find all those attributes that have made the typically Dutch Colonial design such a potent influence on our present day architecture. This house is charming, it is wholesome and it is commodious—what else may one ask of house design? The architect is Nelle E. Peters of Kansas City, Mo. The owner, R. J. De Laro.

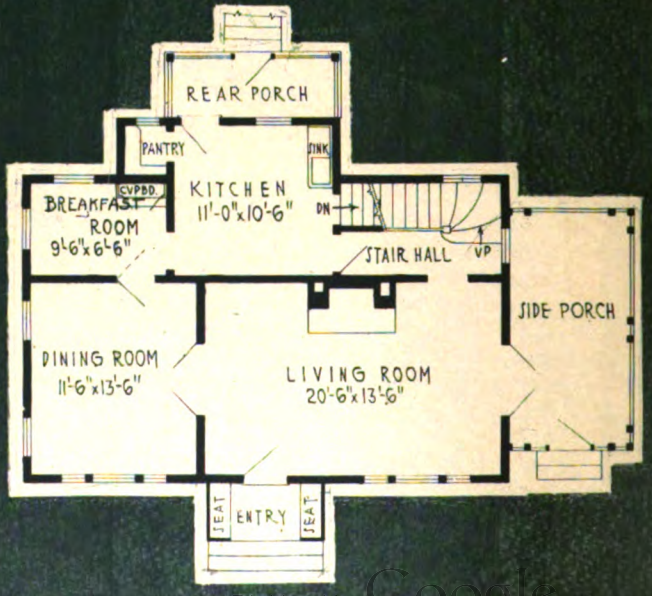


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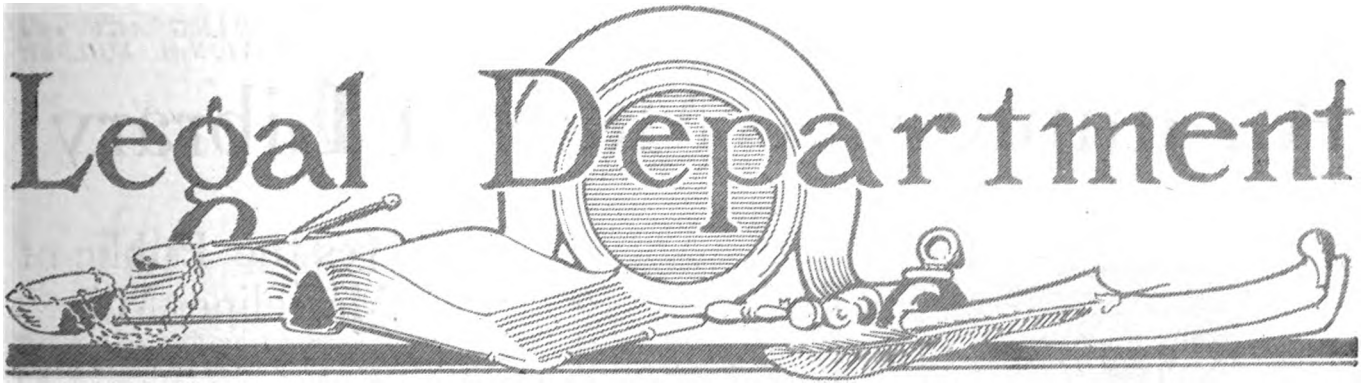
Rugged Old Dutch Colonial





VARIETY in interior room arrangement is invited by the Dutch Colonial. The style leans toward the picturesque rather than the formal, and there are no set precedents demanded within. Here we find a home of enviable radiance, while within the plan follows a pattern all its own. Living room and dining room demand entire frontage, with hall and stairway disposed to the rear of the house. A breakfast room just off the kitchen is worthy of note. At top of stairs an upper hall gives access to three large bedrooms and a sleeping porch. Harrison and Nelson, of Fort Smith, Ark., designed this home for William Eads.

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Contractor's Neglect to Pay Bills

By Arthur L. H. Street

SOMETIME during the builder's career, he is reasonably sure of finding himself in a legal tangle. Very often the difficulty can be settled out of court; again, proceedings may be necessary to determine the rights of each party. In either case, the contractor should know exactly his legal status and this department aims to provide him with that necessary information. In addition to the material published on these pages, inquiries addressed to the legal editor receive authoritative attention. Follow the cases taken up here and send in the facts on your difficulty. We offer this service without cost to readers.

"CONTRACTED to build a house for Mrs. Y," writes a New Yorker. "He was paid $500 on signing of the contract. On completion of the foundation, he received $1,000 more. When the roof was on, rough side-walls complete, and rough plumbing installed, he was paid an additional $1,000, making a total of $2,500. He did not pay any of the sub-contractors and the carpenter filed a lien. X had his money tied up in a speculative job disconnected with this transaction. Mrs. Y, through her attorney, is threatening to take criminal action, charging grand larceny. I tell him that the matter is civil only. What do you say?"

It seems, under the laws of New York, that there is no criminal responsibility on X's part, excepting as he may have obtained payments from Mrs. Y on false representations that lienable claims of sub-contractors had been paid. If he made such misrepresentations, there would be plausible ground for prosecuting him on the ground of committing larceny by false pretense.

In passing, however, it is to be noted that a threat by the owner or her attorney to prosecute X unless he squares matters would constitute a crime in itself—blackmail.

In a few of the states, apparently not including New York, laws have been passed, attempting to make it a crime for a contractor to receive payment from an owner without discharging lienable claims owing sub-contractors, etc. But it seems that, in knocking out a California statute of this kind the highest court of California (American Surety Company vs. Bank of Italy, 218 Pacific Reporter, 466) established the proposition that these laws are void. Referring to an earlier California decision, the court said:

"In that opinion it is made very plain that the obvious object or purpose of the . . . provision of the Constitution of this state . . . that 'no person shall be imprisoned for debt in any civil action, . . . unless in case of fraud,' cannot be circumvented or in any wise rendered abortive by an act of the Legislature making the act of failing to pay a debt a public offense, where fraud does not enter as an element into such act."

The court, also, very aptly observed that, if the law were valid, building contractors would be subject to "the menace or peril of a person sentence from the inception of every building contract into which they enter until its completion."

In the California case, it was argued that there was a trust relationship between a contractor and his sub-contractors, etc., as to money received by him from the owner until payment of the sub-contractors, etc. But the court said:

"It certainly cannot be considered that a trust relation, as to the moneys received by a contractor on the contract price of a building, between such contractor and his materialmen, mechanics, and laborers, can be worked out of the lien law itself. Manifestly this cannot be done, since the relation between a building contractor and those he employs to assist, and who do assist, in the construction of a building by furnishing materials therefore and performing labor thereon, is only that of debtor and creditor. This is even true when the building contract is made in pursuance of the provisions of the mechanic's lien law. Such a contract, in and of itself, is, in its general legal characteristics, the same as any ordinary agreement between two or more parties to do or not to do a particular act or thing.

It is taken out of the class of ordinary contracts only because the Constitution has guaranteed to persons furnishing materials for and performing labor upon a building under it a special remedy, inapplicable to other kinds of contracts, for the satisfaction of their claims for such materials and labor."

How Can Subcontractor Protect Himself?

BUILDERS, a corporation, awarded a heating and plumbing contract, which was performed, excepting as to a few unsatisfactory items, and excepting that sewer connection has not been made. But that connection cannot be made now, because no sewer is in the street yet. The builder holds back $200 on this account. Now a supply house, claiming to have furnished steam boilers for the job, have sued the builder corporation for the price, $250. In the meantime, the plumbing and heating contractor is insolvent and the builder company has gone out of business. Can the supply house make suit stick against builder?

On the facts stated to us—somewhat more detailed than above summarized—the suit cannot be maintained. The boilers were sold to the plumbing and heating contractor and charged to him in the first instance, and not to the builder, who did not order them, or authorize any one to bind it for payment for them. Seemingly, the supply house has lost any right it ever had to enforce a lien against the premises. Howsoever that may be, it has no right to hold the builder personally liable for the bill.

The fact that the builder corporation has sold its assets and is now "inactive" does not render it immune from suit, however. Therefore, a defense should be made against the suit.

Assuming that $200 is not more than enough to fairly cover the expense of correcting defects in the work and in making the sewer connection, the builder rightfully withholds that amount.

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An Impressive Modern Library



Serves the Public of Marceline, Mo.

Architect
Edgar P. Madorie

By Pearl Haley Patrick

EARLY in the history of civilization, the scholar was known as a recluse; as one to be associated with dingy garrets and dusty tomes hidden from the prying eyes of the uninformed. Gradually all this changed to conform with the progress of knowledge and with the recording in printed form of the learning of these same scholars. Today we may travel from the Pacific Coast to the Atlantic and find not more than a handful of towns and villages that cannot boast a public library of some description.

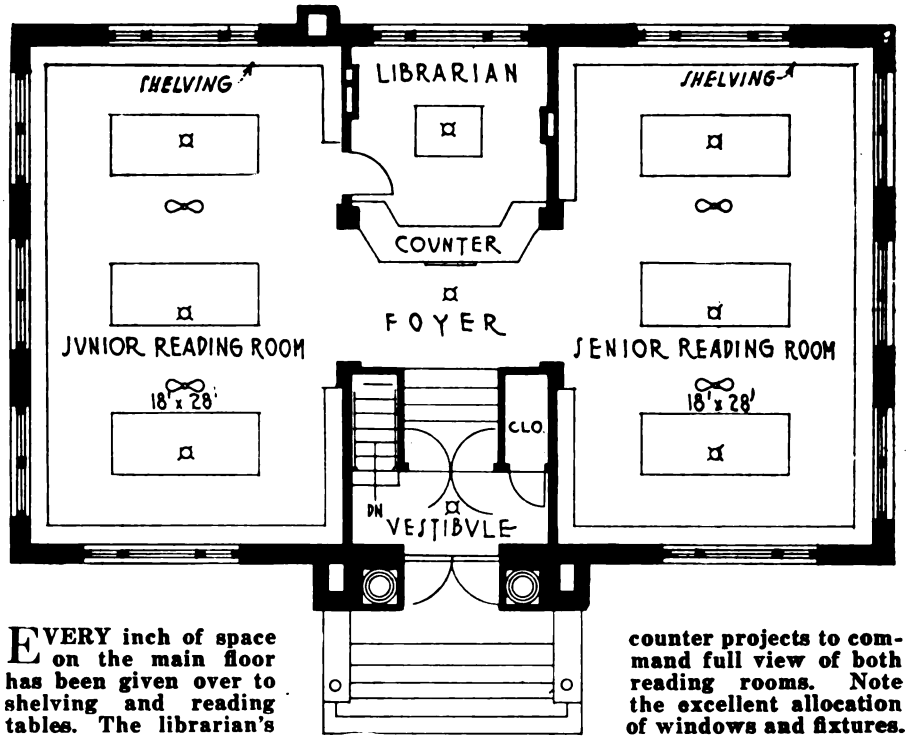
Many of these buildings are the gifts of philanthropists; Andrew Carnegie standing out preeminently as the endower of hundreds of such libraries both small and large.

The dignified little building shown here is representative of his public spirit; it is his gift to the book-lovers and students of Marceline, Mo.

The outstanding feature of its design is found in its brightness and cheeriness. Windows high up in the reading rooms effect abundant illumination during the day and make the rooms attractive meeting places for the public of this Missouri town.

The exterior is of pressed brick with just enough ornamentation to set off the fine proportioning of windows and front entrance. Flanking the latter, are columns to lend impressiveness while on each side of the steps a pedestal lamp gives the necessary decorative relief.

Entering the building one first comes upon the librarian's counter projecting slightly from its nook to command an unrestricted view of both reading rooms. These two rooms are finished in light oak to accentuate the note of cheer and the arrangement of tables, lights and book shelves is fine indeed.



EVERY inch of space on the main floor has been given over to shelving and reading tables. The librarian's counter projects to command full view of both reading rooms. Note the excellent allocation of windows and fixtures.

To provide a meeting place for public functions the basement includes a hall sufficient to accommodate a number of people. In addition, the basement houses heater rooms and a ladies' toilet.

Though in actual size the building is by no means huge, its compact and well executed arrangement gives to it added size in appearance and effective space. This is due largely to the fact that on the main floor, working space is not stinted. No attempt was made to provide there more than the two reading rooms and librarian's nook. By placing the meeting room below nothing has been lost in duplicating the magnificence of very large library buildings. The architect, Edgar P. Madorie, is to be credited for a fine understanding of proportioning and decorative principles.

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Unusual Supports *for* Long Span Roof Trusses

On the "New Garden" New York

MAN, with all his boasted insistence upon individual liberty, cannot get along well alone. He needs the company of his fellows in all important matters, especially those bordering upon instruction and entertainment.

The need for places of public assemblage is elemental. Before there was any religion the branches of trees, caves in the hills and open places in forests served. Then came the old pagan temples which served all purposes, religion, instruction, the need for market places, places where taxes were collected and where money was changed.

The vast cathedrals of the Middle Ages were primarily intended as community centers, their consecration as places for strictly religious use coming later, after other buildings were erected for general use. In the pagan temples, as well as the Christian cathedrals, renowned orators achieved fame and philosophers disputed publicly.

No ancient city was complete without a public forum or amphitheatre. This class of structure is so essential that even the smallest communities attempt to supply it. In modern time we have specialized so that scholastic matters are left to schools, religious matters to churches and organized entertainment to theatres.

In smaller places the Council Chamber of the Town Hall serves ordinary community needs for the discussion of matters of grave concern, private enterprise provides dance halls and skating rinks and travelling shows put up with whatever accomodations temporarily may be utilized.

In larger cities there are special halls where all forms of unusual and peripatetic assemblages are cared for. Notable among these halls are the Coliseum in Chicago and Madison Square Garden in New York. They must be designed to take care of political conventions, circuses, prize fights, other forms of athletic entertainment, exhibitions and general mass meetings. In order that they may best serve the people it is essential that they be centrally located with good transportation service.



MADISON SQUARE GARDEN has gone. The site is covered with debris. Next year a new mammoth office building will alter the New York city sky line at this point

In the year 1857 a three story brick building was opened on the block bounded by Madison and Fourth Avenues, as a union railway station. It was abandoned for railway use in 1871 and commenced a career as a public gathering place where the circus vied with prize fights, large balls and political meetings.

In 1890 it was torn down and Madison Square Garden, designed by the late Stanford White, who later met his death in the roof garden, was erected in its place. The architecture, reminiscent of Byzantium, the Moors and those races around the Mediterranean and Aegean Sea, whose contribution to art and architecture seems most fitting for places where pleasure is emphasized, made the building famous. The tower with a figure of Diana, a masterpiece of St. Gaudens, at the top of the spire, rose to a height of 341 feet and has been shown in many paintings, photographs and etchings. It is said that it was inspired by the well known Giralda at Seville which is crowned with a figure of Faith.

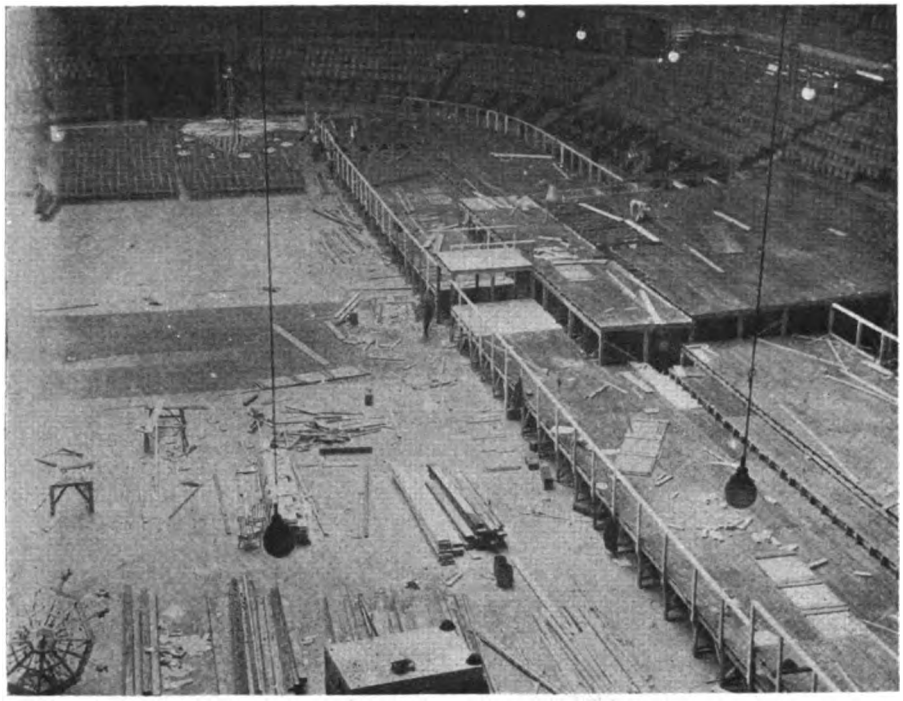
Madison Square Garden has housed many famous conventions, the illustration here given showing the interior after the recent Democratic National Convention. Opened in 1892 it has witnessed many notable gatherings and history has been made within the walls. The circus has been an annual event, many fighters have gone down to defeat and many champions of boxing and other athletic events have achieved triumph in the arena, in the presence of howling multitudes. More prosaic and less exciting, yet fully as important events, such as home exhibitions, poultry and cattle shows, bicycle and other races have been held here.

Madison Square Garden, a purely commercial enterprise has not been always a financial success and in its turn it has succumbed to other needs of the great metropolis. The site it has occupied will be more remunerative when covered with a modern many storied office building and such a building will soon be erected.

Madison Square Garden is being wrecked. Within a short time there will be nothing left on the site as a reminder that it ever existed. The famous tower, it is reported, is to be re-erected on the campus of New York University not far from the Hall of Fame.

The passing of the old building will not, however, deprive New York

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Interior of Madison Square Garden after the 1924 Democratic National Convention

of a place where large multitudes may gather. A New Garden is in course of construction on Eighth Avenue between Forty-ninth and Fiftieth Streets. It will have a seating capacity of about 20,000 around the arena and it will be possible to hold exhibitions at the same time in the basement exhibition hall.

The width of the new structure is 200-ft., 10-in. between Forty-ninth and Fiftieth Streets and the length of the main structure is 375-ft. The face of it is set back 125-ft. from the west side of Eighth Avenue and on this width will be erected a Lobby Building containing offices and stores.

The lobby will have an over-all width of 35-ft. with an entrance on Eighth Avenue and will occupy the middle of the Lobby Building. The total length of the New Garden is 500-ft. and it covers a site formerly used for car barns.

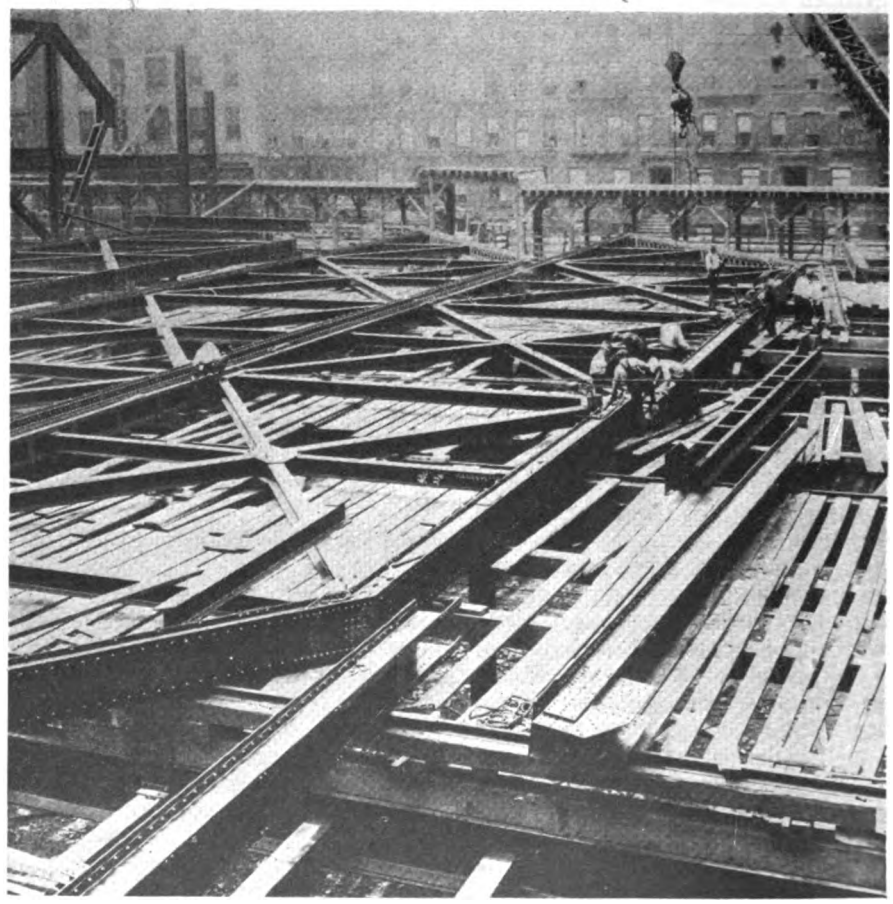
The basement has a height of 19-ft., the ceiling being at the average street level. It covers the whole area of the main structure, 200-ft., 10-in. by 375-ft. and is entered by ramps and stairs. The corners are used for stairways and fan rooms, the floor is of concrete with cement finished surface, the ceilings are furred and plastered, the walls, partitions and columns being plastered. The stairs and ramps are cement finished with grip strips.

The arena is on the main floor. The outer boundary has a width of 110-ft. with a total length of 241-ft., the straight portion being 131-ft. long, the two ends being made with a radius of 55-ft. The inner arena walls enclose a space 85-ft. wide with a length of 186-ft. Each of the four corners is made in the form of a three centered curve, with radii respectively of 42-ft., 6-in., 22-ft., and 15-ft.

On either side are two straight narrow balconies 224-ft. long. The main balcony has a width on either side of 130-ft., 2-in. The ends are on a radius of 103-ft., 2-in., being connected at corners to straight sides with curves having a radius of 24-ft., 10-in. There are two mezzanine floors for promenades, entrances and exits, necessary offices, toilet accommodations, and other necessary services.

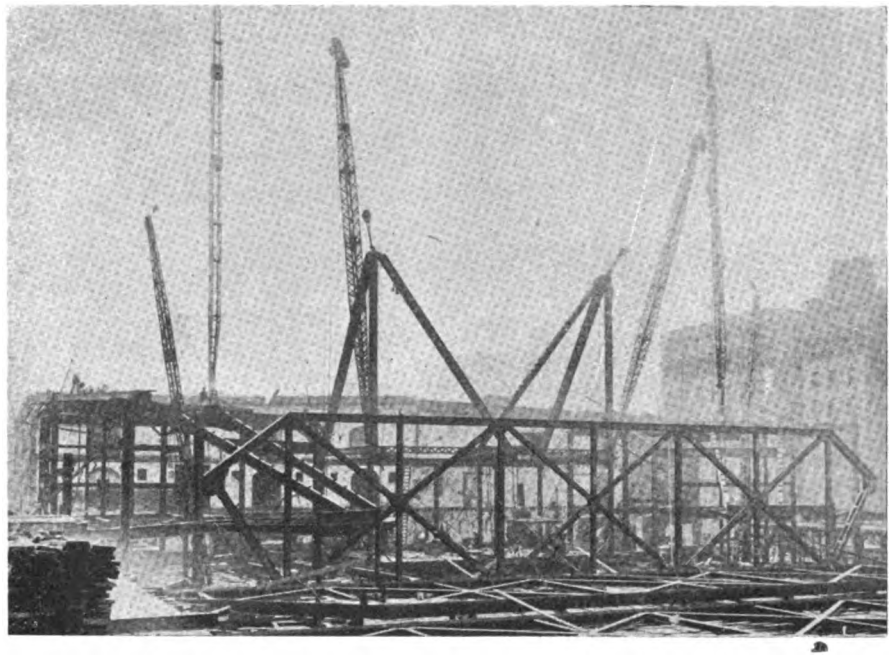
The attic contains fan chambers, for ventilation and heating are important items in such a building and the space required for heating apparatus and ventilating equipment is very great. The roof is covered with Barret Specification Roofing.

The plans contemplate the possible use in the future of the flat portion of the roof for tennis courts. The Lobby Building in front on Eighth Avenue may some day become a high office building. Heat-



Assembling the long-span steel trusses for the New Garden, before hoisting

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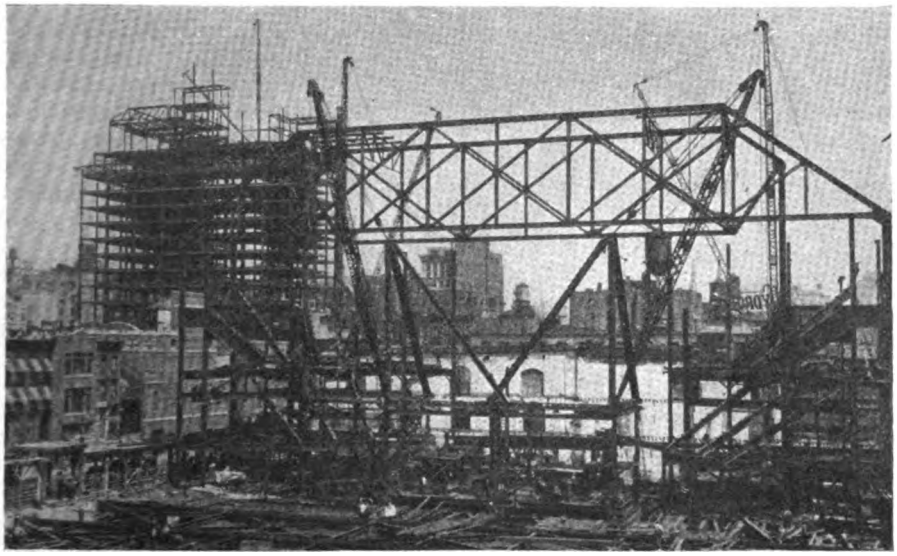
A short truss assembled and ready to be hoisted to position

ing, wiring and other conduits are concealed in floors to as great an extent as possible and in this respect the building is thoroughly modern. In the heating, ventilating and lighting the lessons learned in other similar buildings all over the world have been applied.

The heights of the structure are as follows:

Arena floor level (City Datum 57) taken as	+0.00
Basement floor	—19.00
Stadium mezzanine	+17.50
Rear of Stadium	+37.50
Large balcony mezzanine	+57.50
Large balcony floor	+67.08
Flat portion of roof	+108.95

There are two short trusses near the ends and eight large trusses span the greatest width. The span, center to center of each of the main trusses to center of columns under the ends of the main trusses is 197-ft., 7⅝-in. The outer columns carry the total weight of the roof and the weight of the side walls, together with the reactions from floor beams. They appear to be slender for the height.

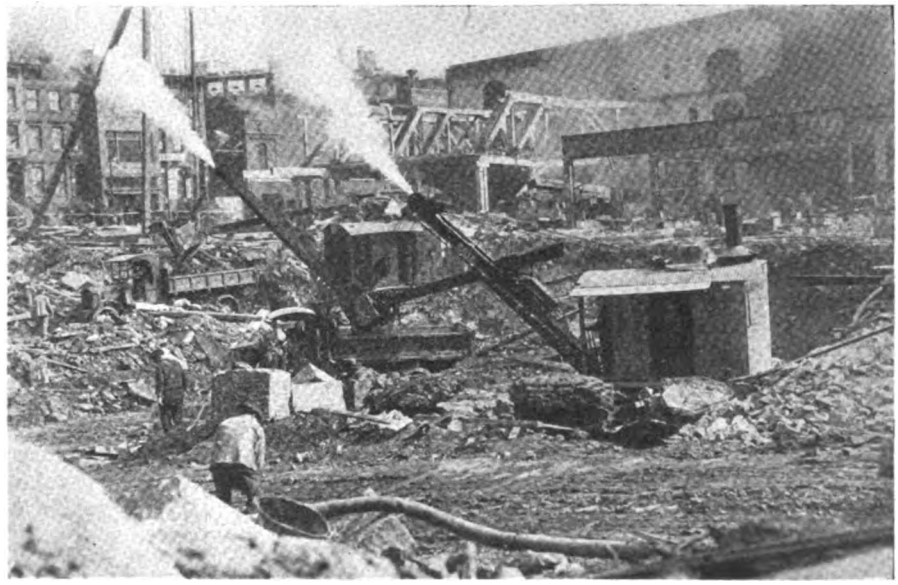


Two trusses in place and steel work for auditorium partially completed

The photographs show another line of inside columns at a distance of seven feet from the outer columns. The inside line of columns carries the cantilever girders supporting the arena seats and go to rock. The outer ends of the cantilever girders are attached to the outer columns and the uplift thus caused lightens the load on these columns, which rest on concrete bases going to rock.

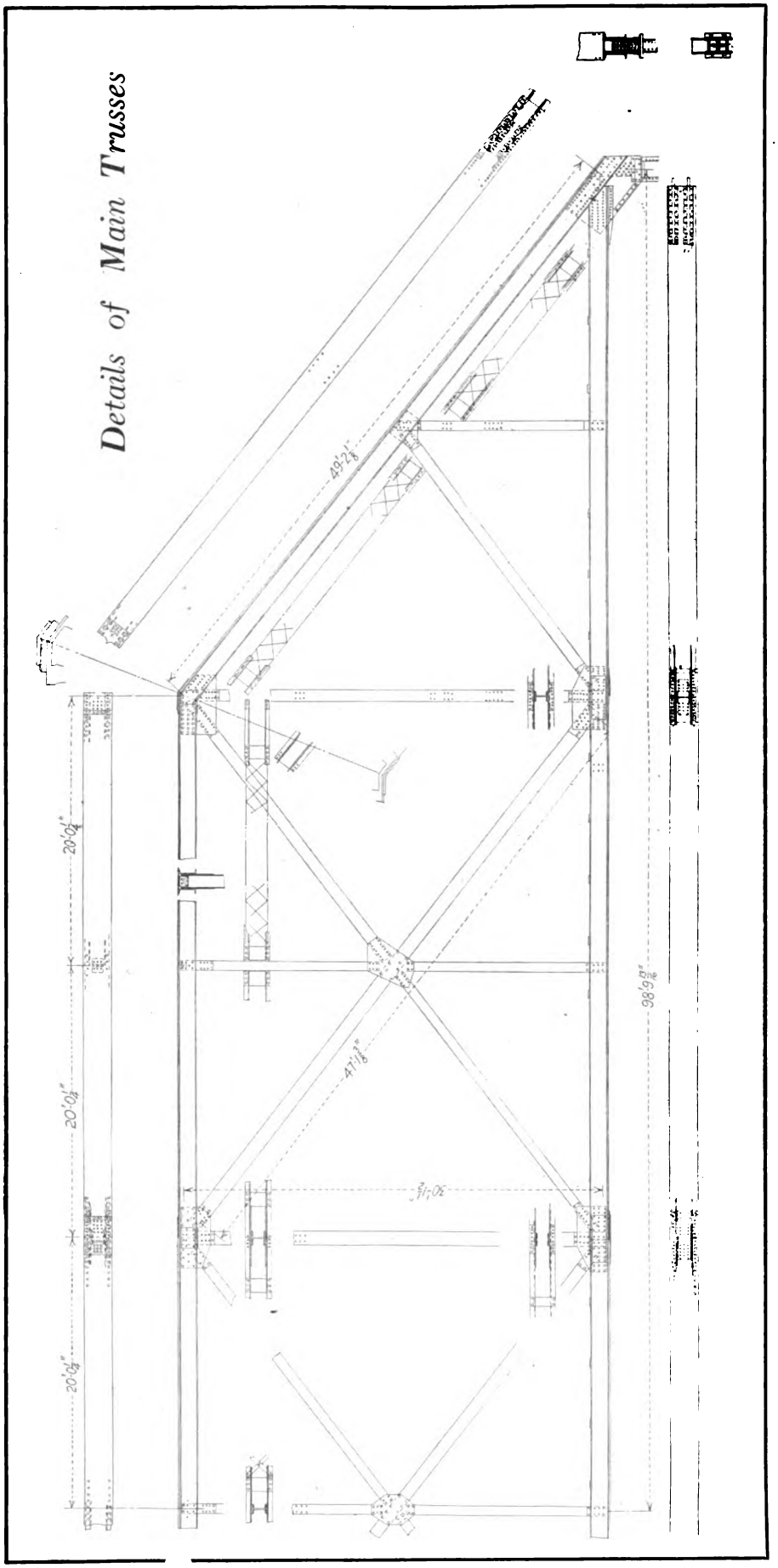
The two lines of columns cross connected at the floor levels form stiff columns deep in the direction of bending from wind on the sides of the building and the roof. The arrangement is a good one from an engineering standpoint and reflects credit on the men who are responsible for the design.

The over-all height of each truss is 31-ft. The method of erection followed was to assemble each truss lying on the side as shown in the cut,



The old wooden car-barn trusses form an interesting contrast with the stronger steel trusses in the New Garden

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after which it was raised with derricks and gin poles into position.

The accompanying illustration of the detailed drawing of a main roof truss gives an excellent idea of the simplicity of the steel framework. The old style arched frame which had an artistic function to perform in addition to the strictly useful one of supporting the roof has given way to the truss with parallel chords. This not only cuts down cost but it gives more room in a better manner within the enclosure. The space which would be oustide the curved ribs is inside the building and is filled with rooms, each of which serves a valuable purpose.

The provisions of the New York City building code were followed strictly in all particulars. The steel framing conforms to the best modern practice for such a structure.

The stairways are capable of handling large crowds with comfort and satisfaction. The rise is remarkably easy. The addition of ramps where they may serve to prevent congestion on the stairs is a most excellent thing. These ramps are on grades which permit the maximum of speed in walking yet are easy enough so that persons who are in a hurry will not stumble.

Experience gained in thirty-three years operation of Madison Square Garden is peculiarly valuable for New York conditions. The New Garden has profited from the errors, slight though some of them may have been, committed when the older place was designed. This is shown in the location of stairs, ramps, public conveniences, widths of doors and lobbies. The interior decoration will be very simple.

The architect for the New Garden is Thomas W. Lamb. The design of the exterior has been altered several times and at present has not been definitely settled. There must be a fine balancing of costs and it is difficult to treat such a building satisfactorily from an architectural point of view and satisfy owners on cost.

The main features are far enough advanced to permit of changes in the design of the elevation without halting progress on construction. It is believed that the final design will be satisfying.

The James Stewart Company, Inc., are General Contractors for the work and the Taylor-Fichter Steel Construction Company, Inc., designed and erected the steelwork.

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Unique Studio *for* Photographer

OPEN air photography, and in fact, any studio that is to meet the requirements of an artist, provide the builder with a wide field for imaginative treatment and unusual effects.

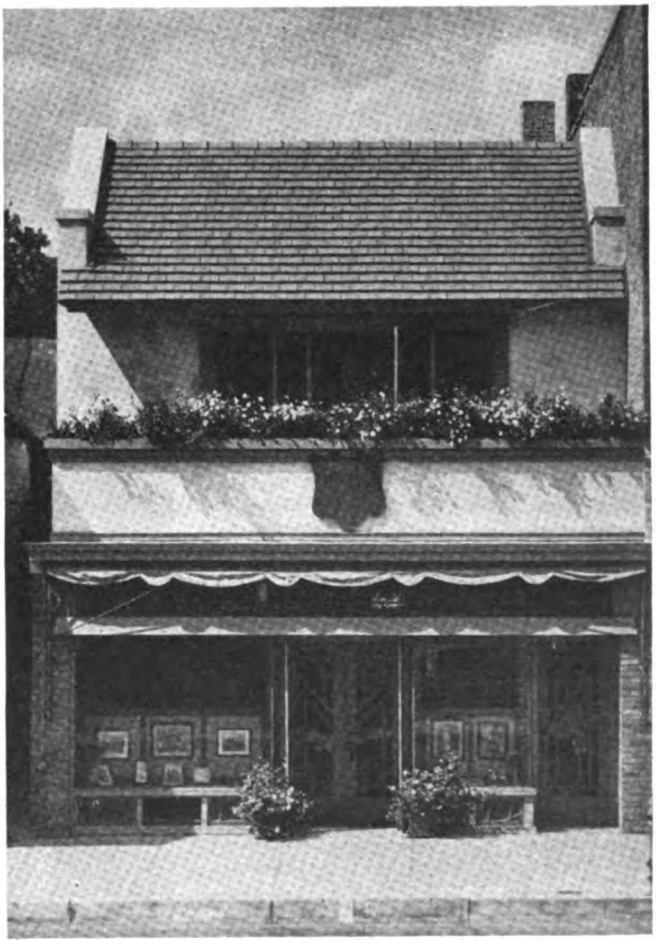
In the studio presented here, the rear of the lot has been transformed from a dumping ground that was an eyesore to a garden spot that provides a score of settings for artistic effects in outdoor photography.

Various massing of shrubs, a stone-paved garden walk, a rustic fountain of natural stone, a shaded pool, and a garden seat are among the features that are used in connection with the backgrounds for the pictures.

The interior of the building is fitted up with bookcases, an inviting fireplace, window seats and unique grouping of details very effective in the arranging of interior poses. The second floor is occupied as an antique shop, and here the opportunity for display has been fully taken advantage of.

The exterior of the building is stucco over brick, with brilliantly colored art glass windows, and an admirably designed roof which gives a balcony effect to the wide front windows bordered with flower boxes.

The property is the studio building of E. B. Trimpey, a photographer, in Baraboo, Wisconsin.



The overhanging roof with its shadow cast over the wall gives an admirable effect, enhanced by the garden touch of the long flower box across the entire front

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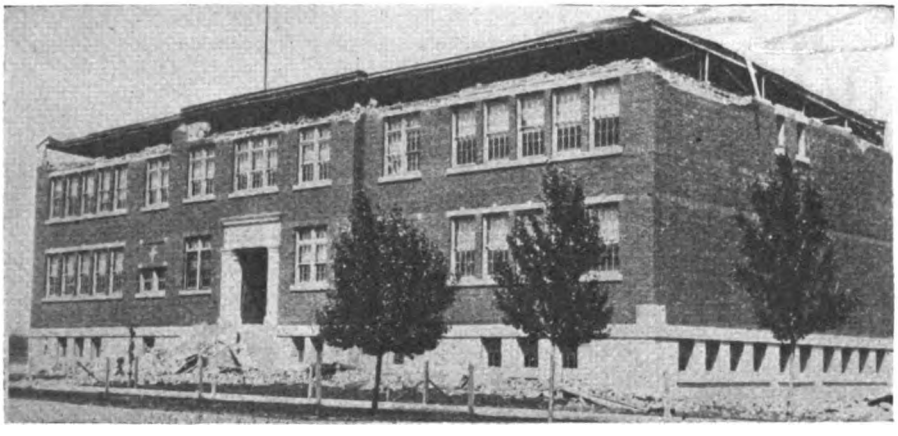
Three Disasters That Sound Warnings

THE collapse of the five-story Pickwick Hotel, Boston, Mass., on the fourth of July, resulted in the loss of many lives and injuries to a large number of people. It contains a lesson for others than builders.

Reports indicate that City officials were negligent. Excavation for a new building alongside the wrecked structure was in progress. The bracing installed may have been sufficient for the protection of the hotel under ordinary circumstances.

It was unwise to have permitted dancing on any of the floors of a building thus braced. It is said that at the time of the collapse several hundred guests were dancing "The Charleston," a notably vigorous dance which is not permitted in some halls because of the excessive vibration it causes.





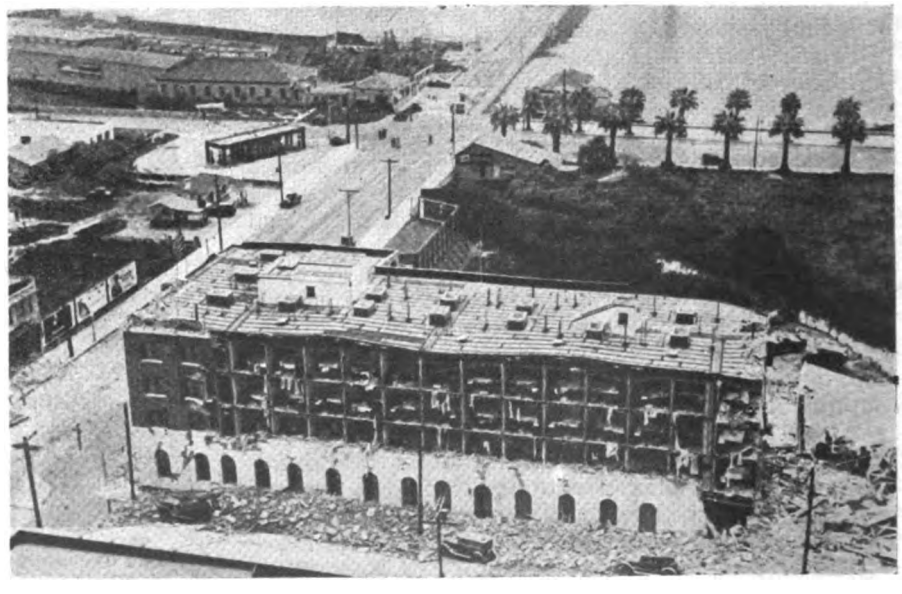
A recent earthquake apparently found the weakest portion of the Consolidated School Building, Three Forks, Mont., to be the thin parapet wall enclosing the space under the roof.

The lot of architects and builders will be made still harder if they must build against the risk of earthquakes and still withstand the desire of owners to trim cost. There exist many good reasons for the attempts to develop regional architecture.

The damage done to the California Hotel, Santa Barbara, Calif., proved once more that the only type of construction to withstand earthquakes is monolithic.

After centuries of building light bamboo framed buildings with paper partitions the Japanese have revised their ideas. They now favor reinforced concrete and strongly braced steel framed structures. Instead of suffering the economic loss due to structures that shake to pieces they build unshakable ones.

In the hotel here shown it is said the side walls of brick fell down and the floor joists were held in place by the flooring. Apparently the ends of the joists were not tied to the walls. California can learn something from Japan.



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CARPENTRY

Good Practice in Frame Construction and Finish

The Foreman Talks About the *Un* Common Rafter

By Edward H. Crussell

¶Last month the foreman instructed Davis, the apprentice, in several phases of rafter construction. Now he continues, taking up additional methods that may comprise a valuable summary for our carpenter readers.

THE matter of deciding how big a notch, or 'bird's mouth', shall be cut in the foot of the rafter where it rests on the wall plate, is something that is usually disregarded by the architect, though it is often the cause of a great deal of worry to the novice in roof framing. If the notch is made too small, it is difficult to properly nail the rafter to the wall plate; if it is made too large, there is danger of weakening the rafter, especially if the projection is great. However, we can leave this item until we are marking out the rafter, something we will now see if we can do. Bring over one of those 2 x 6"'s and lay it on those saw horses, while I get my square."

The foreman returned in a few moments, looked the 2 x 6" over, made as if to commence, and then paused to ask: "Suppose this stick had a bow in it, which edge would you put upward?"

"Why, the crowning edge, of course."

"That's what practically every one would say. Can you think of any situation where it might be better to turn the crowning edge down and put the hollow edge up?"

Davis shook his head.

"I've always understood, that when placing rafters or floor joists, the crowning edge should be placed upward in order to counteract the natural sag of the timber."

"Well," said the foreman, "strange as it may seem, and in spite of what you have always understood, there are cases where the hollow edge of the rafter should be turned upward. If you had a narrow building, 20 feet or less in width, with a projection of rafter over the eaves of four feet or more, you would find that turning the crowning edge upward, would give a very poor and drooping appearance to the projecting ends of the rafters; a condition you would find it very difficult to remedy.

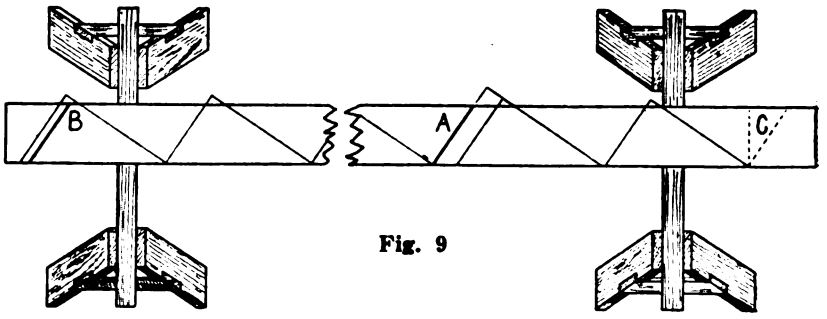


Fig. 9

"Another thing; have you ever heard of a work line, in connection with the laying out of rafters?"

Davis had heard of it, but intimated that he didn't understand much of anything about it.

"Well," said the foreman, "It's something I have never been able to see any use for, but if there is time enough, we'll look into it presently.

"Now let us assume a one-third pitch roof, on a building 27 feet wide, with a ridge piece 1¾ inches thick, and a projection at the foot of 26 inches, measured on a level line straight out from the wall plate. With the back, or upper edge of the rafter toward us; the tongue of the square, held at the 8 inch mark in our left hand, and the blade held at the 12 inch mark in our right; starting at the foot, or right hand end of the rafter as it lays on the horses, we mark off two spaces, being careful to make accurate measurements and hold the square firmly. These two spaces will give us 24 inches on a level line when the rafter is in place, but our specifications call for a projection of 26 inches, so we slide the square two inches further along the last level line drawn, or so that the 14 inch mark comes to the edge of the rafter, and mark a plumb line along the tongue: like this (A, Fig. 9).

"This last plumb line represents the outside edge of the wall plate; the face of the notch must be cut on it, and so long as it is cut on it, it makes no difference whether the notch is large or small it will not alter the length of the rafter, it will merely make a slight change in the total height of the roof above the wall plate.

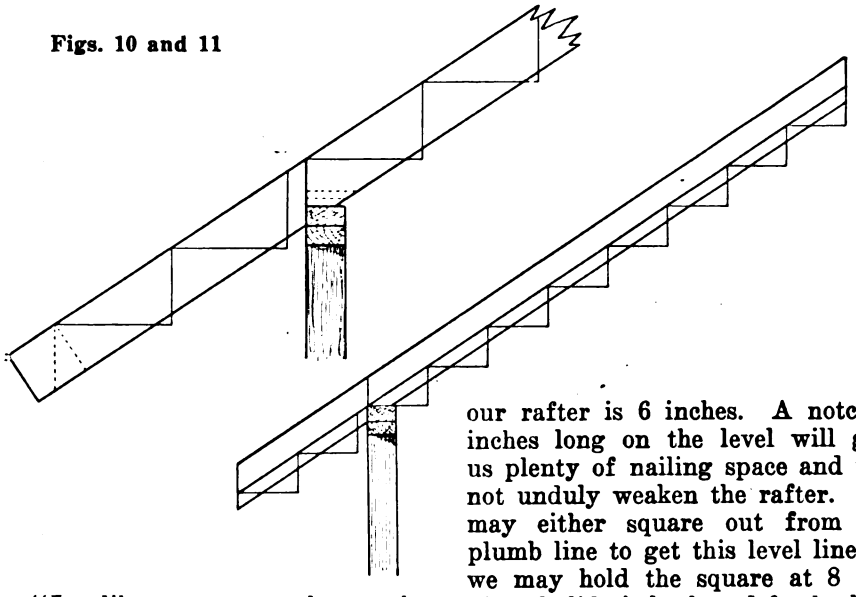
"All this being so, we may now start at the plumb line and step off

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that portion of the rafter which corresponds to half the span of the building. We step off 14 spaces with the square, and then, to deduct half the thickness of the ridge, slide the square back along the last level line a distance of 7/8 inch (B, Fig. 9).

"All fractions of feet, or fractions of inches, in the run of the rafter, are most easily handled in just this way. If the run of our rafter had been 14 feet 3 inches, we would have stepped the square 14 times and then slid it 3 inches further along the last level line; if it had been 14 feet 9 inches, we would have stepped off 15 spaces and slid the square *back* 3 inches, all that you need to remember is, that these fractional measurements are taken along the level line; not along the edge of the rafter.

Figs. 10 and 11



"In like manner, when using arithmetic to test the accuracy of a rafter that has been laid out with a square, it is usually much easier to assume an even length of rafter for the sum in arithmetic and then, with the square applied in the proper manner, add or subtract the fractions to or from this measurement. Take our present example; the total run of our rafter, plus the projection, and minus the allowance for the ridge, is 16 feet 1⅛ inches.

"There is no need for us to bother with the extra arithmetic occasioned by these fractions, if we find the true length for the run of a rafter of 16 feet, we can easily add the 1⅛ inches with the square."

"Yes," agreed Davis, "I think I get all that; but what are you going to do with the feet of our rafters? Let them go rough, and cut them to line after they are in position?"

"By no manner of means!" was the indignant reply, "The proper place to cut rafter ends is on the saw horses, and that's where we'll do it. Our specifications did not say whether the rafter ends were to be cut square, or plumb. If left square, we have merely to square a line across at the starting point; if plumb, we mark a plumb line from the same point, either by squaring from the level line, or by using the same figures (8 and 11) from the other edge of the rafter; like this. (Dotted lines at C, Fig. 9.)

"We may now mark out the notch for the wall plate and the laying out of our rafter is finished. Let's see, our wall plate is 4 inches wide, and our rafter is 6 inches. A notch 3 inches long on the level will give us plenty of nailing space and will not unduly weaken the rafter. We may either square out from the plumb line to get this level line, or we may hold the square at 8 and 12 and slide it back and forth along the rafter until the blade is in the proper place for marking the level line.

"If we wanted to show a certain amount of rafter below the edge of the wall plate, instead of measuring along the level line of the notch, we would measure up from the bottom of the plumb line. If we wanted to have a certain amount of the thickness of the rafter above the plate, as for instance, to make it suit a hip rafter already framed, we would measure the correct distance down the plumb line from the top of the rafter. None of these variations in any way effect the true length of the common rafter, as can be plainly shown by setting our rafter up in the position it is to occupy; like this." (Fig. 10.)

"Now about this work line—" began Davis.

"The work line," interrupted the foreman, "is of no earthly use to anyone in roof framing. It merely wastes valuable time and fogs the issue. The man who uses it seems to assume that in order to lay out a rafter, you must necessarily mark it out along a line that touches the outside upper edge of the plate. He usually marks the notch for the wall plate first, he then draws a line, the full length of the rafter, and parallel with its edge, which will just touch the corner of the notch, and along this line he lays out his rafter in any of the ways we have been discussing. He arrives at exactly the same result by means of a more tedious method, because as you can see here (Fig. 11) the distance is exactly the same, whether you measure along the work line, or along either edge of the rafter. If you are skeptical you may easily test the matter for yourself."

"Je-e-rusalem!" exclaimed Davis, "Who'd think there was all that to be said about such an insignificant part of roof framing as the common rafter? But you certainly have most thoroughly covered the ground, and I don't think it possible for either you, or anyone else to add anything more."

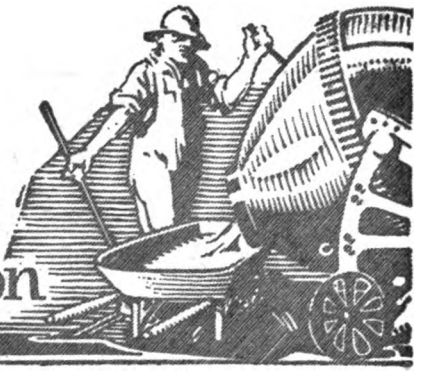
"Covered the ground nothing!" retorted the foreman, "Why we've barely begun. We have merely got as far as marking out the simplest kind of a common rafter for the plainest kind of a roof. We haven't touched upon common rafters for curved, or gambrel roofs, or rafters with ornamental ends. Then again, you talk as if laying out the rafter was all that there was to roof framing, which is a very common mistake. We've still got to cut the rafter, hoist it up into position and fasten it into place, every item of which requires as careful consideration as any of those we have already gone over.

"Then, if you pause for a moment to think of all the other members in a roof; hips, valleys, jacks, cripples, trusses, purlins, etc., and of all the different kinds of roofs; flat, shed, gable, mansard, gambrel, hip and valley, tower, circular, octagonal, etc., you'll not have so much cause to wonder why I raise my eyebrows when some fellow tells me that he knows *all* about roof framing."

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CONCRETE

Form Work-Reinforcing Methods Monolithic and Block Construction

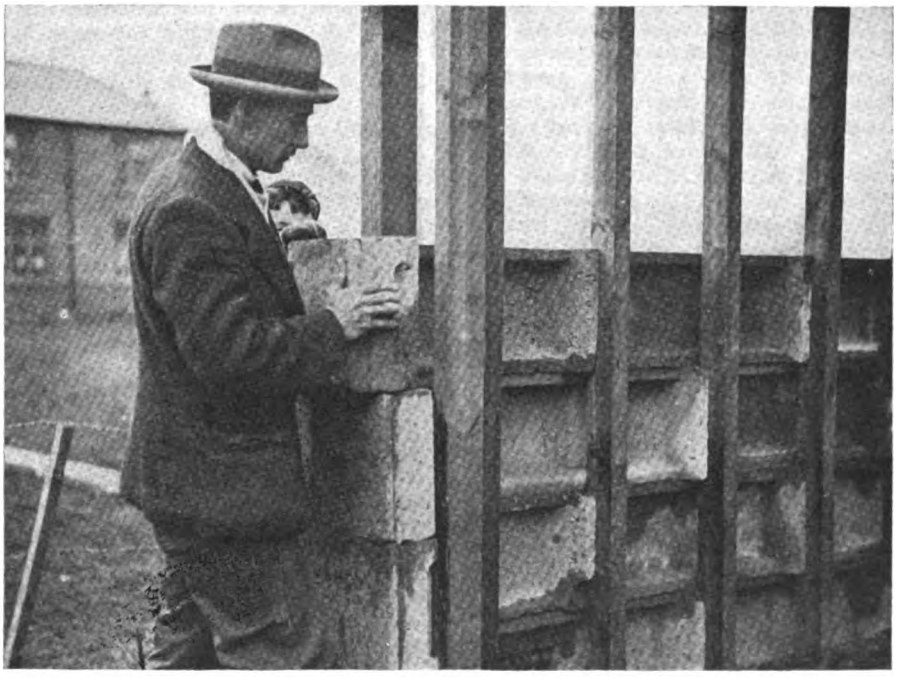


New Concrete Block Saves on Skilled Labor

THE methods of making concrete blocks aiming at greater ease, speed and economy in construction, are many and various. One of the most recent is that devised by Walter Rex, of Whitley Bay, England, who has invented an interesting type of concrete block, designed to effect an appreciable saving on skilled labor in construction.

Using this block, which with its originator is here illustrated, small houses can be constructed without the aid, for exterior walls, of skilled labor. That the method is economical is indicated by the fact that Mr. Rex expects to construct, within a period of two weeks, a two-story, seven-room house, at a cost of approximately £400.

The photographs show how the blocks are made and the method of fixing them in position on the wall. Upright studs are used, and the blocks are shaped so that their backs fit snugly between each pair of studs and are gripped by the sides of each alternate pair. The use of studs also acts as furring, and the interior walls can be quickly and easily finished by the use of wallboard, plasterboard, etc.



Building a concrete house without aid of skilled labor. The blocks fit between upright studs, and the latter also act as furring



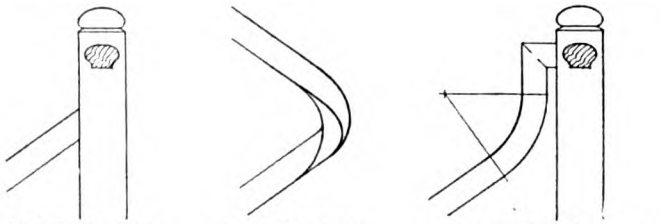
Below: Walter Rex, originator of new type of concrete block, moulding blocks, aided by a boy at Monkseaton,

Thus, with the aid of a few laborers and a carpenter for the interior, a concrete house might be rapidly and economically constructed by this method.

Walter Rex is seen in the illustrations working on a house. He is aided by a small boy, who has been enlisted for the moulding of the blocks, which is done on the site.

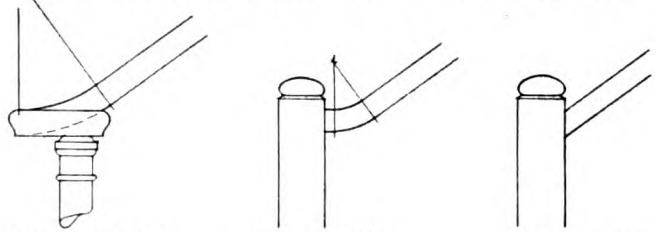
The house under construction is on the Grange Park estate, Monkseaton, England.

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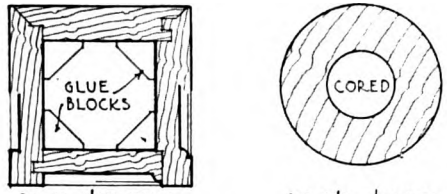
STRAIGHT RAIL. · WREATHED RAIL. · RAMPED RAIL.

FIG. 1 - HANDRAIL TURNS AS AT LANDINGS, ETC.



VOLUTE OR SPIRAL EASEMENT STRAIGHT

FIG. 2 - HANDRAIL TERMINALS, AT STARTING NEWELS



BOX NEWELS ROUND NEWELS

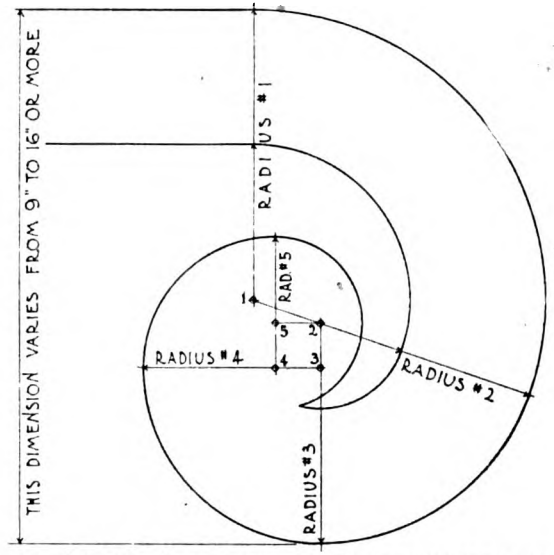
NEWELS FORMED IN THE SOLID ARE APT TO CHECK. SMALL ROUND NEWELS MAY BE SOLID IF CORED OUT INSIDE

FIG. 4 - TYPICAL NEWEL CONSTRUCTION.

PLATE IX.

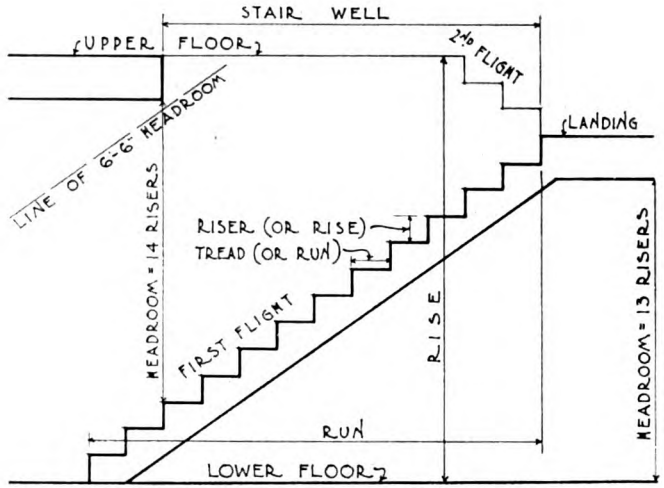
STAIR CONSTRUCTION

SCALE FOR FIGS. #1 & #2 : ½ INCH EQUALS ONE FOOT
SCALE FOR FIGURE #3 : ¼ INCH EQUALS ONE FOOT
SCALE FOR FIGS. #4 & #5 : 3 INCHES EQUAL ONE FOOT
SCALE FOR FIGURE #6 : 1½ INCH EQUALS ONE FOOT
SEE PLATE X FOR ADDITIONAL STAIR DETAILS



THE NUMERALS INDICATE COMPASS CENTERS & THE ORDER OF THEIR USE

FIG. 5 - A METHOD OF LAYING OUT A VOLUTE



STAIRS SHOULD BE LAID OUT ACCURATELY TO DETERMINE HEADROOM. THE OLD RULE OF "13 RISERS FOR HEADROOM" IS ALL RIGHT FOR ROUGH APPROXIMATIONS, BUT NOTE THAT THE DIAGRAM SHOWS THAT THE RULE IS NOT ALWAYS TRUSTWORTHY. A GOOD RULE FOR PROPORTIONING STEPS IS THAT THE PRODUCT OF THE WIDTH OF THE TREAD (NOT INCLUDING THE NOSING) MULTIPLIED BY THE HEIGHT OF THE RISER, SHOULD FALL BETWEEN 70 & 75. FOR INSTANCE, IF 10" TREADS ARE DESIRED, THE RISERS SHOULD BE NOT LESS THAN 7" NOR MORE THAN 7½" HIGH. 7½" SHOULD BE THE MAXIMUM HEIGHT FOR RISERS ON MAIN STAIRS, BUT BACK STAIRS MAY HAVE RISERS 8" OR 8½" HIGH. ALL STEPS IN A STAIR SHOULD BE THE SAME SIZE

FIG. 3 - DIAGRAM OF A TYPICAL STAIRWAY.

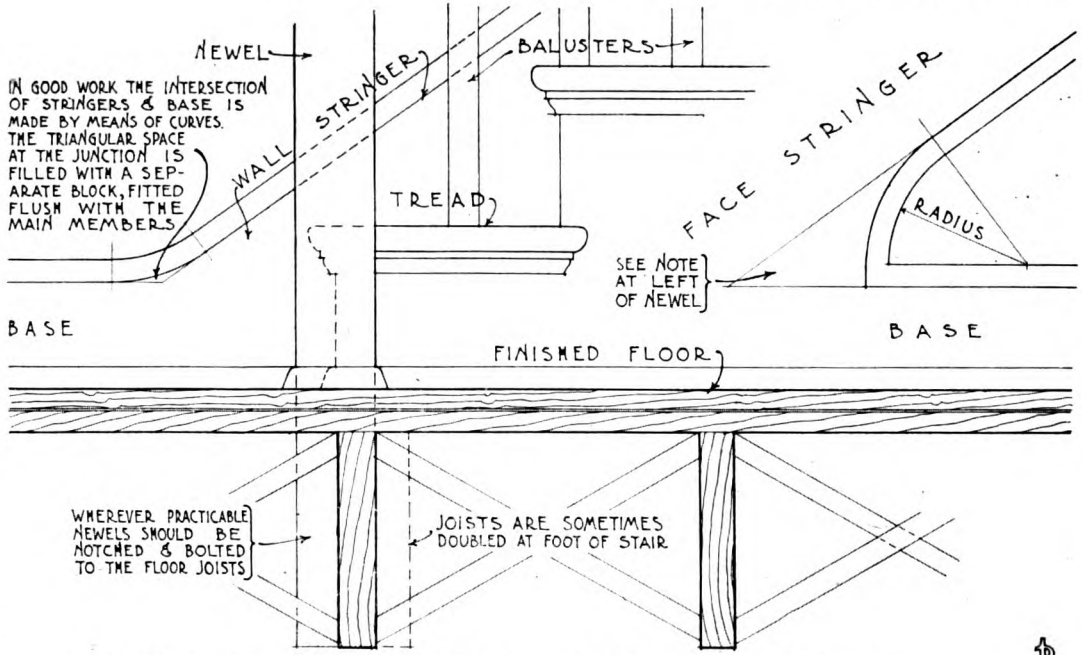
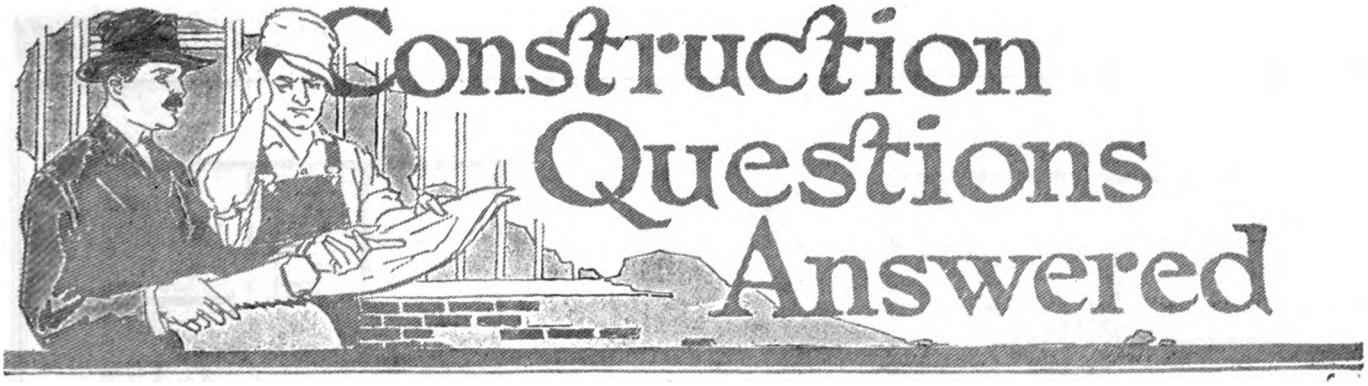


FIGURE 6 - START OF A TYPICAL STAIR.

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BUILDING AGE and NATIONAL BUILDER

BUILDING AGE *and* NATIONAL BUILDER DETAIL SHEET ***Drawn by Jim T. Pomeroy***



A Few General Questions on Building Practice

E. B. L. asks:—Is there any advantage to be gained in using equal quantities of red and white lead on the priming coat for a new house?

2. Is bag plaster better than the old fashioned hair mortar? Some masons claim it will crack more. Can the skimming be applied over ordinary plaster? Also on wood laths?

3. What convertible level would you recommend for a builder, building mostly to sell, who would use it considerably for laying out streets and lots?

4. Could you give me any idea what a brick veneer house should cost over one either sided, or shingled?

1. We can see no advantage in using a mixture of red lead and white lead for priming woodwork. White lead is usually preferred on account of the color which permits of thin coats of covering paint. If red lead is used for priming the covering paints must be decidedly opaque and be applied in heavy coats. Red lead usually is used as a protective paint for metal.

2. Bag plaster is a modern product prepared in factories and well liked because of the uniformity in composition. It is so popular that some inferior qualities are sold, this probably being the reason for the criticisms above mentioned. When buying prepared materials stick to nationally advertised products, for men who do not advertise cannot guarantee their products. Write to the manufacturers who advertise in Building Age and National Builder in regard to the possibility of using their materials over ordinary plaster and on wood laths. A general reply cannot be given to such an inquiry on account of the variety in the kinds of bag plaster on the market. Never use a special material in any other manner than that recommended by the manufacturers.

3. In purchasing a convertible level, or any other special instrument, get in touch with firms advertising such instruments. Tell them about your particular problems and ask them to furnish you with the names and addresses of men similarly situated who have used their instruments. The opinions of users alone furnish a reliable guide. Manufacturers usually have on file letters from satisfied users. Go slowly and investigate carefully. There is no better rule for buying instruments or materials with which one is not entirely familiar.

4. Comparative costs depend greatly upon local conditions, affecting the cost and supply of materials, the cost and supply of labor and the experience of the contractor himself. The difference in cost between wood siding and veneered brick houses is getting less as the cost of wood increases. Modern brick walls, such as are advocated by the Common Brick Manufacturers Association, may often be built at a cost no greater than that of a framed structure.

Keeping Concrete Floors Dry

THE following comes from one of our readers in India:—With the prolonged monsoon or rainy season in this country floors of all types as ordinarily constructed tend to "draw" the moisture. Thus the ordinary floors of the best constructed bungalows, being of concrete, become very damp during the rainy season. All perishable objects resting on them also tend to deteriorate. Will you kindly advise me through your column as to how to construct a concrete floor in such a manner that the moisture from below cannot come to the upper layers of the concrete so that the floor will remain dry?—S. T. M.

Cover the ground with a layer at least four inches thick of broken stone, gravel, brick, etc., with all pieces of approximately the same size, this being about one and one-half inch cube or diameter. This will give the largest possible percentage of voids and yet maintain the base in a solid condition. Level it on top with pea size gravel, or other hard broken material and apply a thick coating of asphalt or coal tar. While this coating is still hot lay the concrete floor on top of it and the tar will adhere to the concrete. Make a rich mixture of concrete, say one part of approved Portland cement, one and one-half parts of fine aggregate and three parts of coarse aggregate. Add to it, by measure, one-half as much lime as it contains cement. Lay the concrete in thin layers, well tamped and carefully finish the top surface. The edges of the concrete should also be covered with hot asphalt or tar and this may be done by coating the inside of the forms in advance of the pouring of the concrete.

What Is the Best Height for Ironing Board?

WHAT is the best height for a built-in ironing board? We have been accustomed to setting them 32-in. from the floor but recently a client said he had an objection from a lady who said this is too high.—W. & G. Lumber Co.

We would like to have our readers settle this question. The writer recently measured several adjustable ironing boards in use in apartment houses and no two were at one height. The stature of the users seemed to govern this point and the measured heights ranged from 29-in. to 34-in. For a woman five feet tall it would seem that a height of from 31-in. to 32-in. should be about right. For taller women it would be a back breaking height. Moral: Build them in with an arrangement for adjusting the height within a range of two inches either way.

How Would Our Readers List This?

RECENTLY in blocking out a job from a plan, in other words, listing material to go to a mill, we found the following clause in the specification: "The base in the living room is to be stock 10-in. high extension base, having wall moulding." Will you kindly let me know how you would construe this, and the way you would list it for the mill? —W. J. K.

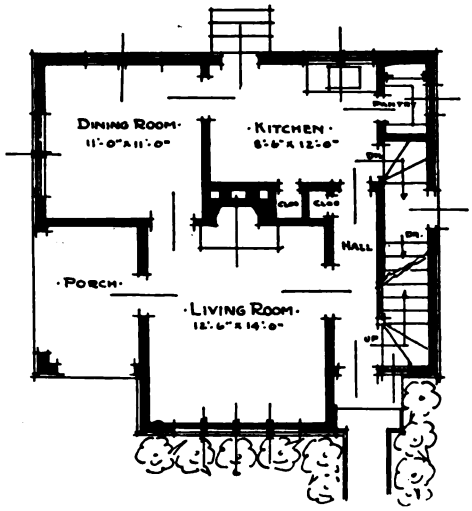
We will be pleased to hear from our readers on this point.

Removing Dirty Finger Marks

THE mechanics on most of our jobs are very careless about getting finger marks on white plaster walls, smooth finish. Have you any suggestions as to the best manner to remove these marks. —A. A. B. Co.

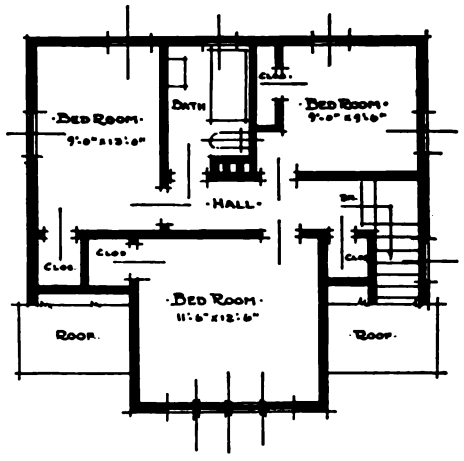
We have not. Perhaps some of our readers will tell what they do in similar cases.

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· FIRST FLOOR PLAN ·

SUNLIGHT fairly pours in upon this living and dining room. This six-room house is very conveniently laid out, and the stairs in the hall are handily arranged. Glazed sash will transform the porch into a sun porch during the cold months.



· SECOND FLOOR PLAN ·

Two Popular Home Designs

Prepared for Building Age and National Builder

By William F. Silliman, Architect



HERE is a capital example of a house that is removed from the commonplace without being outre or in any way freakish.

The low roof lines of this symmetrical design give a very pleasing and appealing appearance to this six-room home. The well-lighted living room and dining room are connected by an arched opening, and the stairs in the hall are very conveniently arranged.

The kitchen with its pantry affords a generous amount of working space. The laundry is located in the basement.

The porch can be screened in the summer and transformed into a sun porch by glazed sash through the winter months.

On the second floor are three bedrooms, one 11'6" by 12'6", another 9' by 13', and the third 9' by 9'6". Each has a large closet. The bath room is conveniently located.

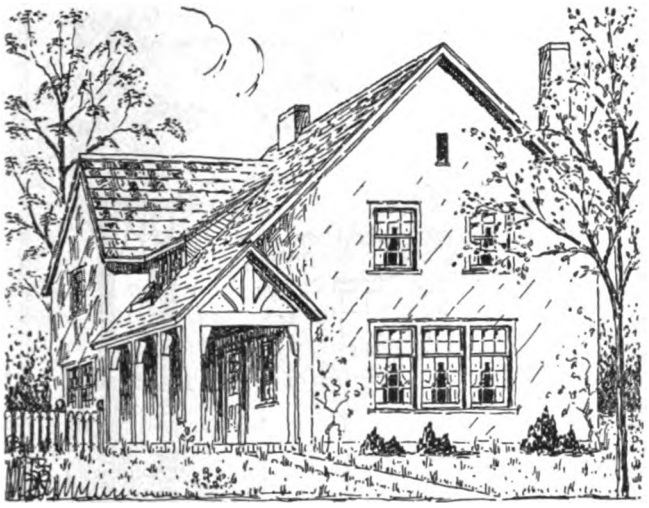
This house can be built of siding or stucco on frame walls, or of stucco on hollow tile walls. With shingle roof of simple or variegated color and walls of light hue, a decidedly attractive color scheme can be obtained.

The cardboard model reproduced here gives a good idea of how this house will look when actually built and set off by trees and shrubbery.



· PERSPECTIVE ELEVATION ·

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· PERSPECTIVE ELEVATION ·

THE house of unhackneyed design, one that possesses that indefinable thing termed style, and that still is inexpensive to build, is not often found. Here is a home that possesses these attributes—a home that has character and that, despite its simplicity, is by no means conventional.

There is a delightful little flavor of the English about this design, thanks to its timbered porch. The latter, which is of generous proportions, can be screened in summer and enclosed with glazed sash in the winter time.

The living room and dining room opening into the stair hall give the appearance of a much larger house than it really is. Here is an illusion that no home-owner will object to! The living room is of goodly size—12′ 6/ by 20′—and is excellently lighted. The dining room, too, has very generous window provision.

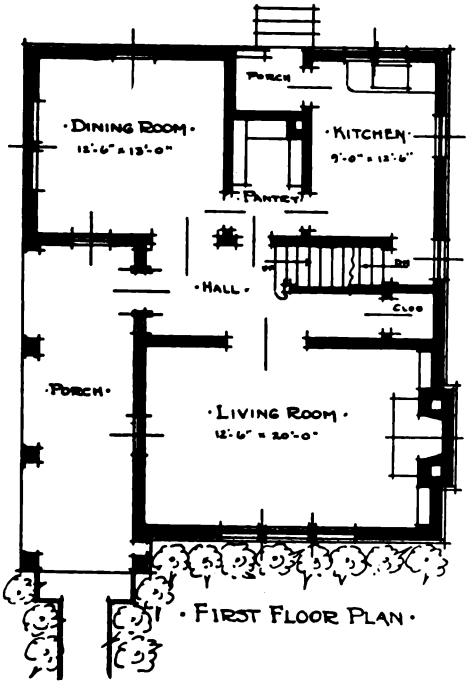
The kitchen is separated from the main rooms by the pantry. The laundry is located in the basement.

On the second floor are three bedrooms, the bath room and a sewing room, whose two broad windows are calculated to snare every last ray of sunlight.

This house can be built of siding or stucco on frame walls, stucco on hollow tile walls, or of brick. It should prove an attractive and appealing ensemble in any of these materials.

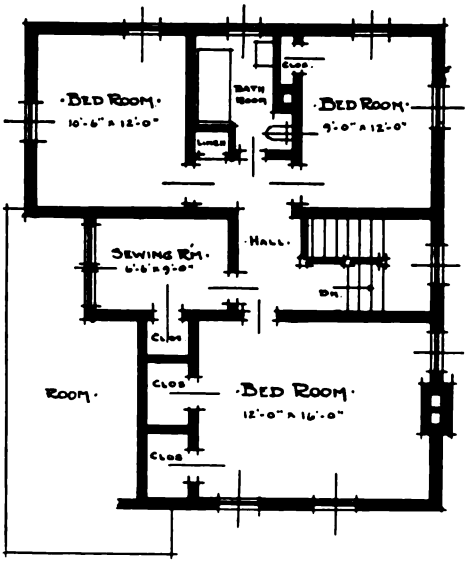


Simple Card Board Models Help Prospective Owners to Actually See How House Will Look



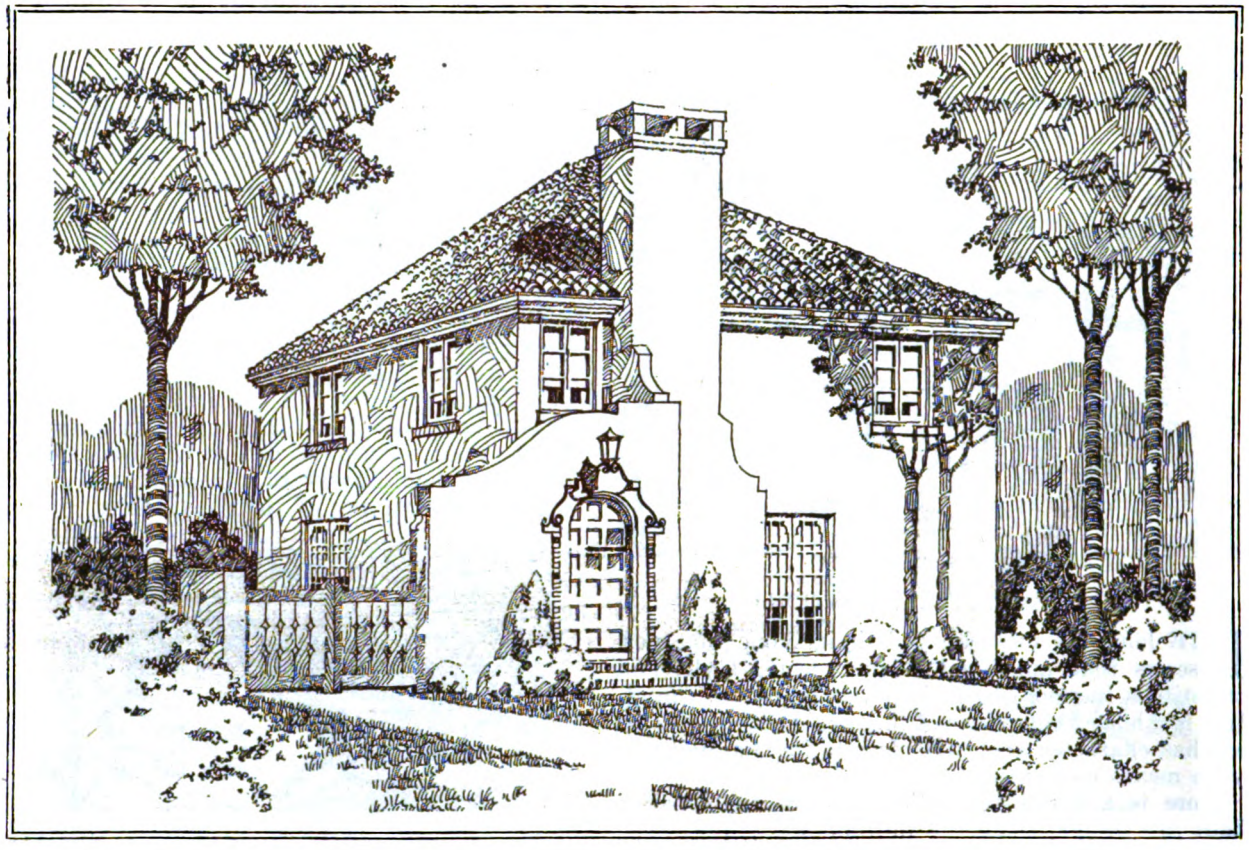
· FIRST FLOOR PLAN ·

THE photo of the card board model illustrated above gives a good idea of how this house looks "in the round." Tinted in the actual colors, it shows the prospective owner exactly how his home will look when completed. In this example the model shows a really dignified little house of definite appeal to home lovers.



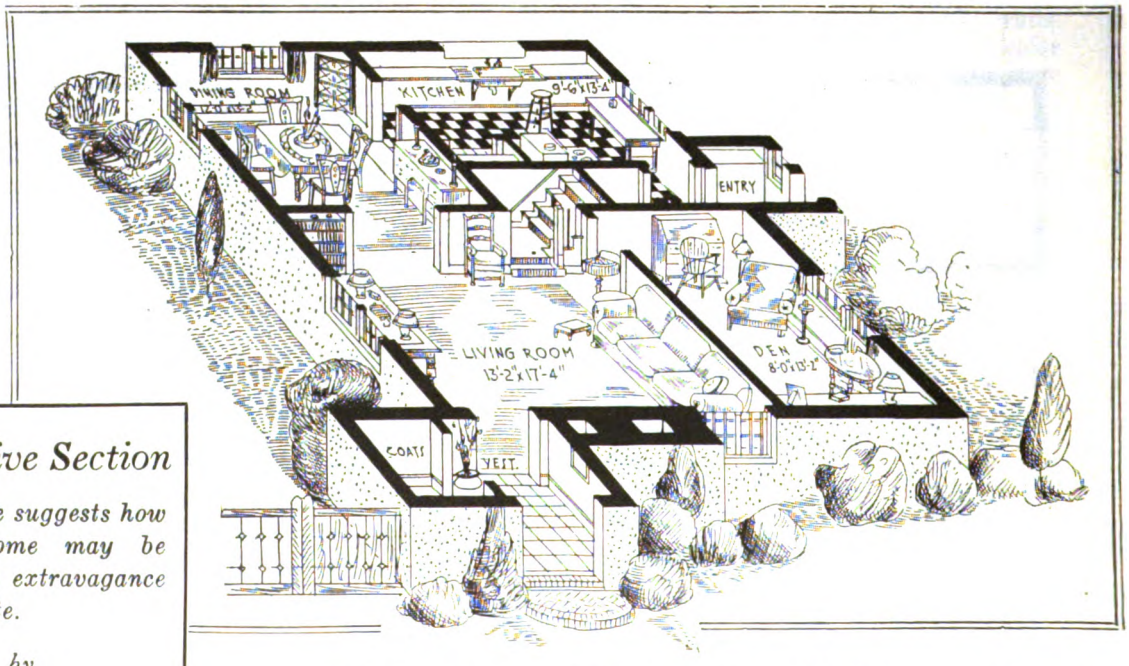
· SECOND FLOOR PLAN ·

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Spanish Home Design Attractive *and* Practical

HERE is an excellent rendering of the Spanish —altered only enough to allow it to conform with modern standards of living. Interior is shown at right.



The Perspective Section

shown on this page suggests how this Spanish Home may be furnished without extravagance but in perfect taste.

Drawn by
Samuel R. Bierman

California and Florida Can No Longer Boast a Monopoly of Spanish Style Homes

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Designed Specially for Building Age and National Builder

By R. C. Hunter & Bro., Architects

IN the Spanish house one looks for romance, for hospitality and elegance. Here, that hope is fulfilled in a way pleasing to the most severe of critics. Old World tradition and dignity are the keynotes of every intimate detail.

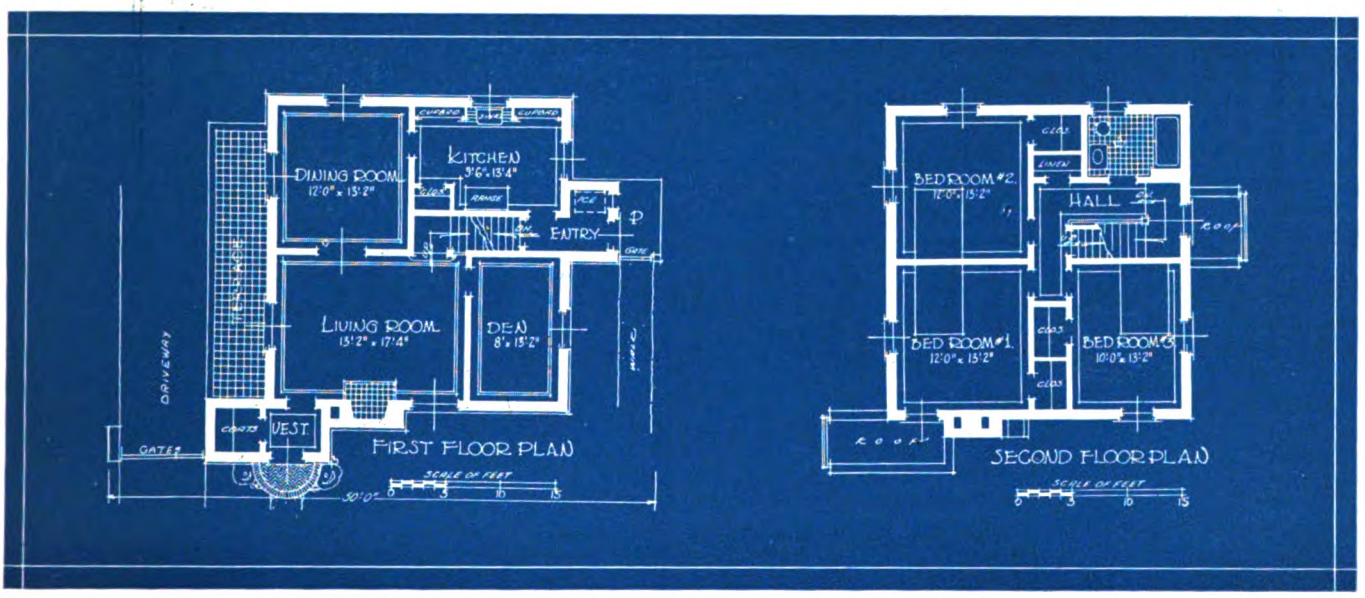
Rough cast stucco on hollow tile, that substantial construction so hard to equal, forms the exterior walls. From the side, this wall is so extended as to shield an open terrace running towards the rear. The plan shows how a closet has been worked in between two such wall extensions.

window, is flanked on either side by cupboards. The opposite side of the room is taken up by a range, a closet and a door. Through the latter, one enters a tiny hall, leading one way to an entry, the other to the cellar. The dining room looks out to the rear through a single window while another one gives full view of the charming little terrace.

Not to be overlooked among important features are the casement doors opening from the living room to the lawn. Treating these to conform with decorative chimney has been met with eminently successful

it is to be used has been carefully worked out here. Living room and den occupy salient positions for they are to be in almost constant use. Also, the kitchen is a valuable workroom and space must not be stinted. The dining room receives the least frequent usage yet its outlook is important. A study of the main floor plan will bring out the excellent disposition of each of these rooms.

On the second floor are three bedrooms each with a generous closet, connecting to a little hall. From this, access is had to a tile bath in the rear of the house. An addition-



Red Spanish tile forms the roof—an effect so compelling in this school of design.

A front entrance is given further distinction with heavy oak doors and wrought iron ornamentation. As a crowning feature an old World lantern hangs over the door. The gate to the left is also of oak.

Within, we find the setting ideal for that rich, austere, elegance of old European homes—for fine furniture and draperies.

To the usual living room, dining room and kitchen on the first floor has been added a den of good proportions. And the living accommodations provided by the unique tiled terrace must not be overlooked in considering available quarters.

The kitchen, in particular, makes excellent provision for working space. A sink lighted directly by a

results. Matching them on the second floor are casement windows of simple, unaffected design. Casements fit most aptly to the Spanish and in this home their architectural advantage has not been forgotten; they are used throughout.

For a first floor plan of such moderate dimensions, the arrangement provides a maximum of room and comfort. The importance of each room and the manner in which

BLUE Print Plans and Specifications with Models of many Beautiful Homes of Moderate Cost can be supplied at a nominal price by Building Age and National Builder, 239 West 39th St., New York.

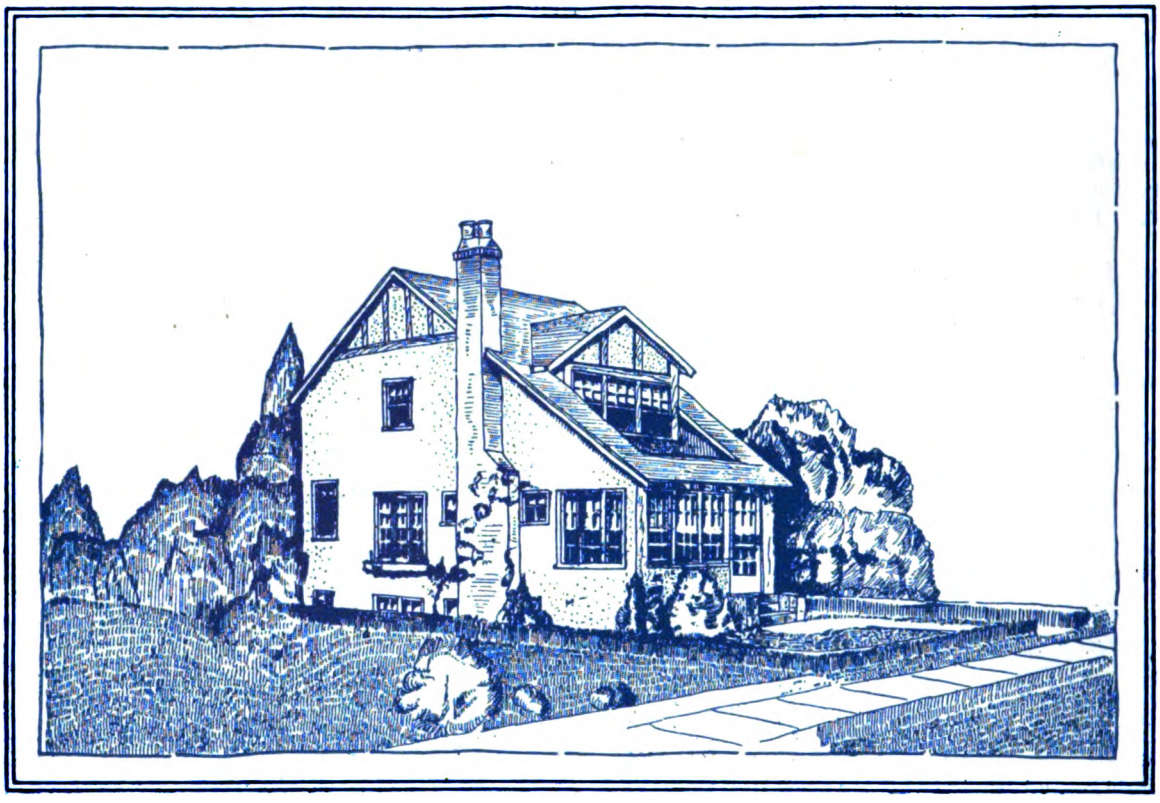
al closet for linen storage is found just at the right at the top of stairs.

A large chimney, itself an embellishment to the front of the house, cares for a fireplace in the living room. Its size does not permit a greater height than draft actually demands. Extending it too high above roof edge would make it too conspicuous, detracting from its harmonious qualities.

Landscaping such a house is a most important detail in considering the ultimate impression to be made. Too great an abundance of foliage, particularly large trees, are to be avoided lest the design seem out of place in a forest setting. Small shrubs will enhance its beauty with just enough high trees to shade and cast pleasing shadows on the creamy stucco background.

The estimated cost is $11,600.

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A Little English Cottage

The Plans in Blue Print Drawn Specially for Building Age and National Builder

WITH just a little suggestion of the English, this modest home is one that will surely attract attention. It is only 14 ft. wide and designed to go on a 20-ft. lot if necessary, but it will be far better if it could be placed on a wider lot as then there would be plenty of room on one side for driveway to a garage and also leave space for a garden.

It was designed to be finished in stucco, but the exterior could be either clapboards or shingled if preferred by the owner. A good sized glass enclosed porch forms a charming sun parlor.

The first floor consists of a living room, dining room and kitchen with a side entry providing space for an ice box. Upstairs two bedrooms and a good sized bathroom are located and plenty of closet room has been provided. The cellar is very conveniently divided and is really a model for a small house. What more can be provided in such a small house?

Outline of Specifications

EXTERIOR:

To be of stucco on metal lath or any other patented stucco base. Chimney of common brick stuccoed. Steps of face brick.

ROOF:

To be covered with shingles, either wood, asbestos, slate or asphalt. Leaders: rectangular in section, either zinc, copper, or galvanized iron.

INTERIOR TRIM:

Of living room and dining room of oak or chestnut. Kitchen, porch and second floor of white pine. Front doors of oak, other doors of birch or white pine. Windows, sash and frames of wood. Steel sash and frames in cellar. Sash for sun parlor of steel or wood.

HEATING:

Can be either steam, hot water or hot air. This is an excellent design of house for pipeless furnace.

PLUMBING:

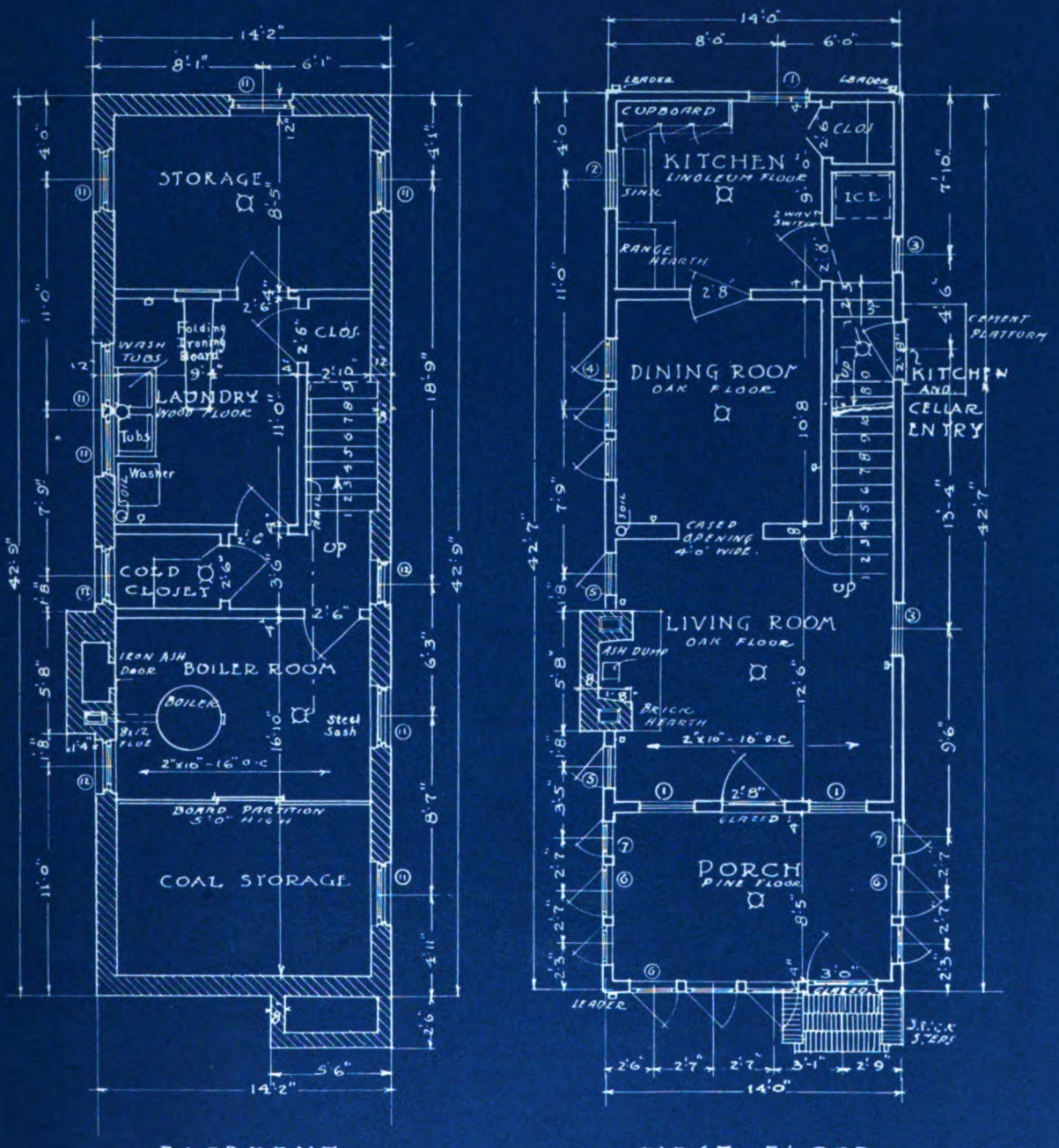
Sink, bath tub and lavatory of enamelled iron. Wash tubs of soapstone and toilets of porcelain. Vent and drain pipes of cast iron. Water pipes of brass. Gas connection to kitchen range, laundry and open fireplace.

PAINTING:

Living room and dining room walls in rough old English plastic finish, either on plaster or wall board. Kitchen, wall board wainscot tile patterned. Upper wall surface covered with washable cloth hanging. Ceiling painted, trim enamelled. Rear entrance, closet, laundry and cold closet, two coats cold water paint. Bedroom, walls and ceilings to be papered. Trim, painted three coats. Hall finished in rough old English effect like living room. Storage and boiler room white washed. Closets painted two coats.

Bath room, walls tile effect, half way up. Above covered with washable oil cloth hanging. Ceiling painted, trim enamelled.

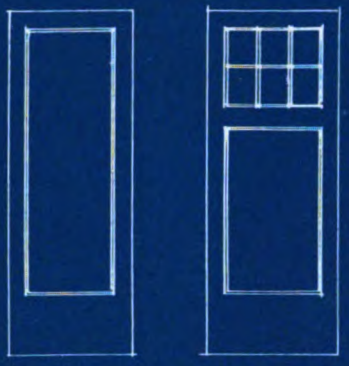
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SCHEDULE OF WINDOW SASH

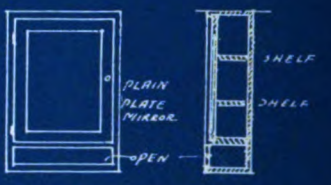
	No		
FIRST FLOOR	1	2'-8" x 5'-2	DOUBLE HUNG
	2	2'-8" x 4'-0"	"
	3	2'-4" x 4'-10"	"
	4	2'-0" x 5'-2"	"
	5	2'-0" x 2'-6"	CASEMENTS.
	6	2'-6" x 5'-2"	"
	7	2'-0" x 5'-2"	"
SECOND FLOOR	8	2'-8" x 4'-10	DOUBLE HUNG
	9	2'-8" x 4'-0"	"
	10	2'-4 x 4'-10"	"
BASEMENT	11	3'-0 x 1'-4"	SINGLE SASH TO
	12	2'-6 x 1'-4"	SWING IN.



TYPICAL INTERIOR DOOR

FRONT DOOR

SCALE 1/2" = 1'-0"

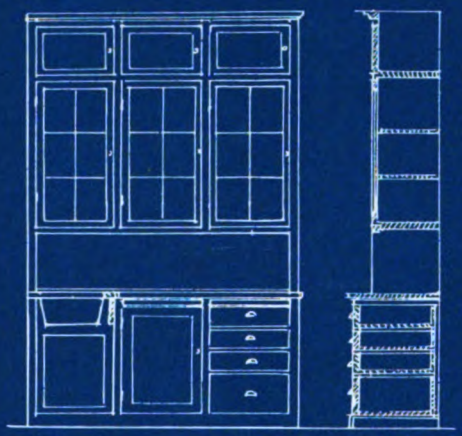


ELEVATION OF MEDICINE CLOSET

SECTION.

SIZE OVER ALL 24"x36" 8" DEEP

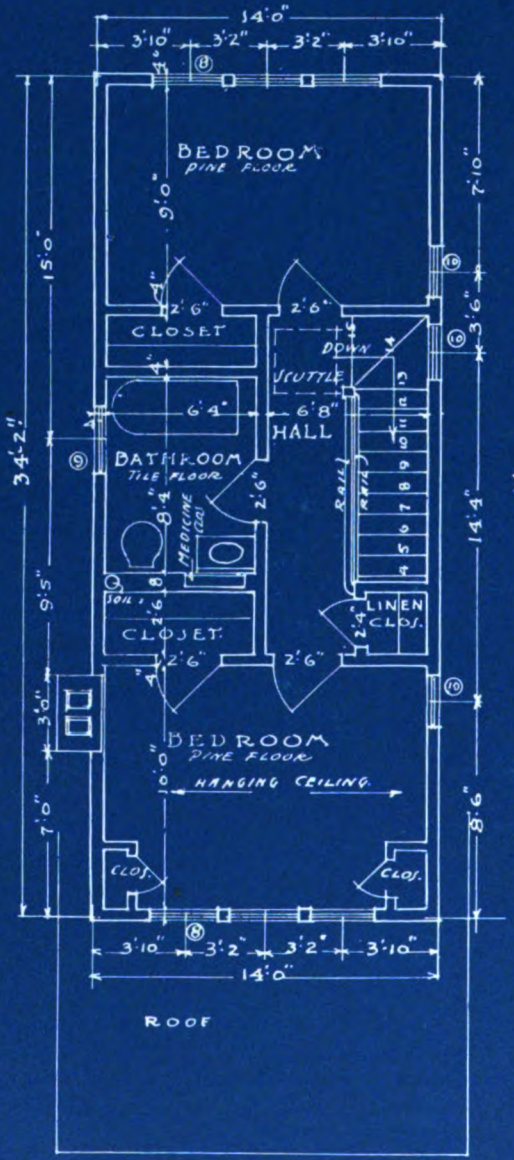
SCALE 1/2" = 1'-0"



ELEVATION OF KITCHEN CODBOARD

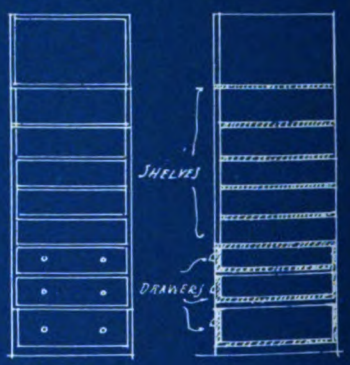
SECTION.

SCALE 1/2" = 1'-0"



SECOND FLOOR

SCALE 1/4" = 1'-0"

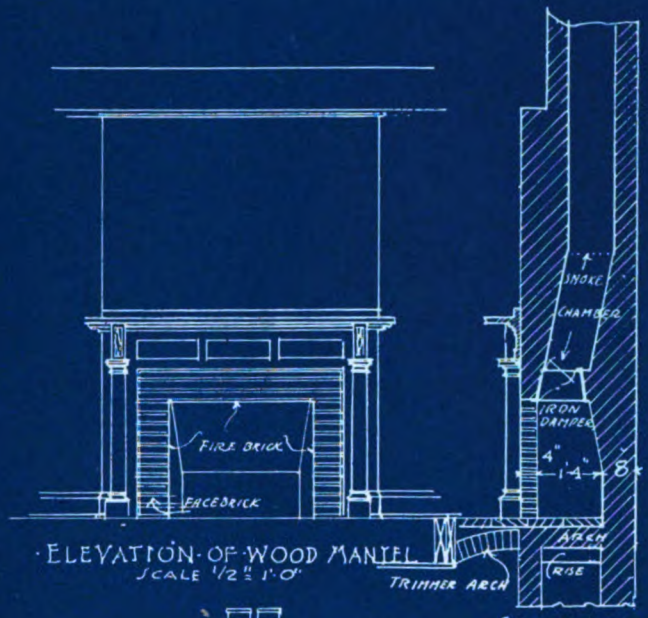


ELEVATION OF LINEN CLOSET.

SECTION

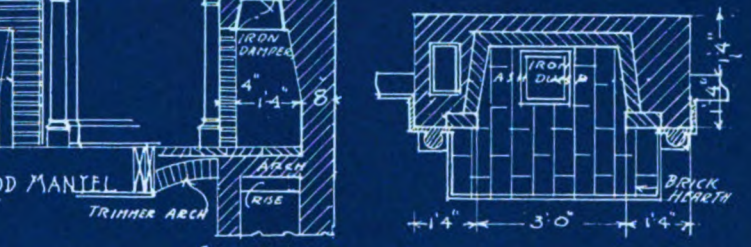
SCALE 1/2" = 1'-0"

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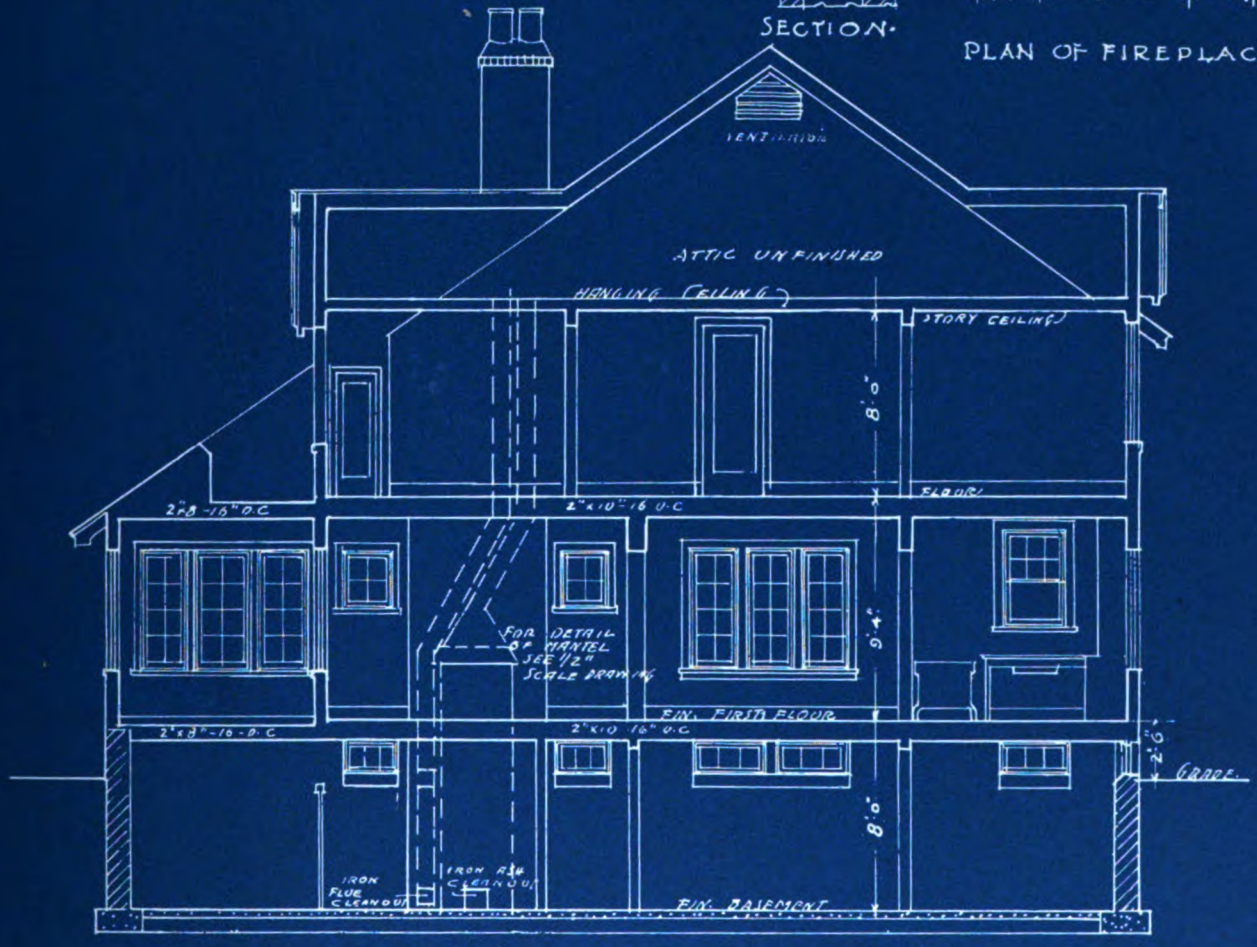


ELEVATION OF WOOD MANTEL
SCALE 1/2" = 1'-0"

SECTION



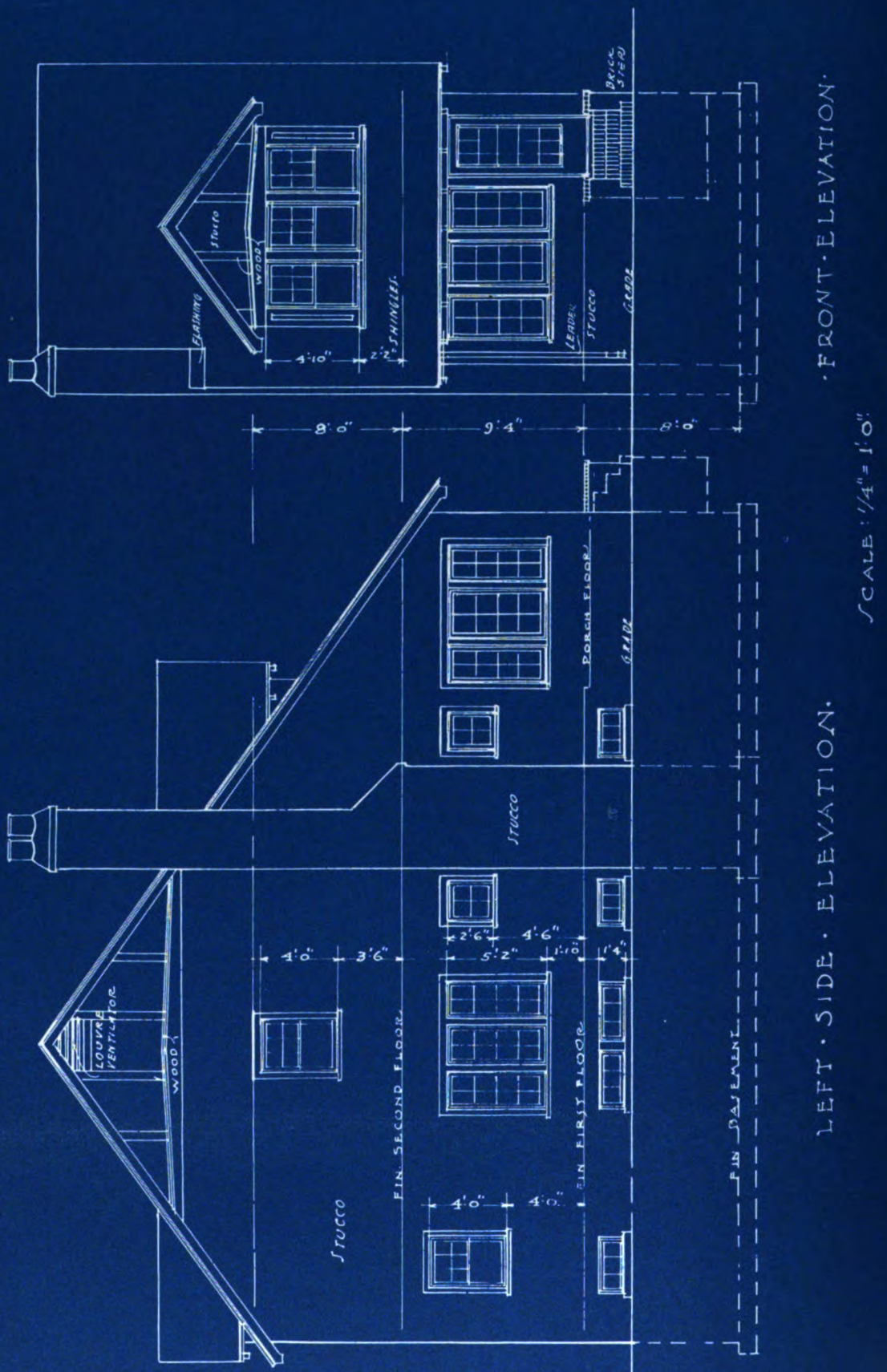
PLAN OF FIREPLACE



LONGITUDINAL SECTION
SCALE 1/4" = 1'-0"

BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS

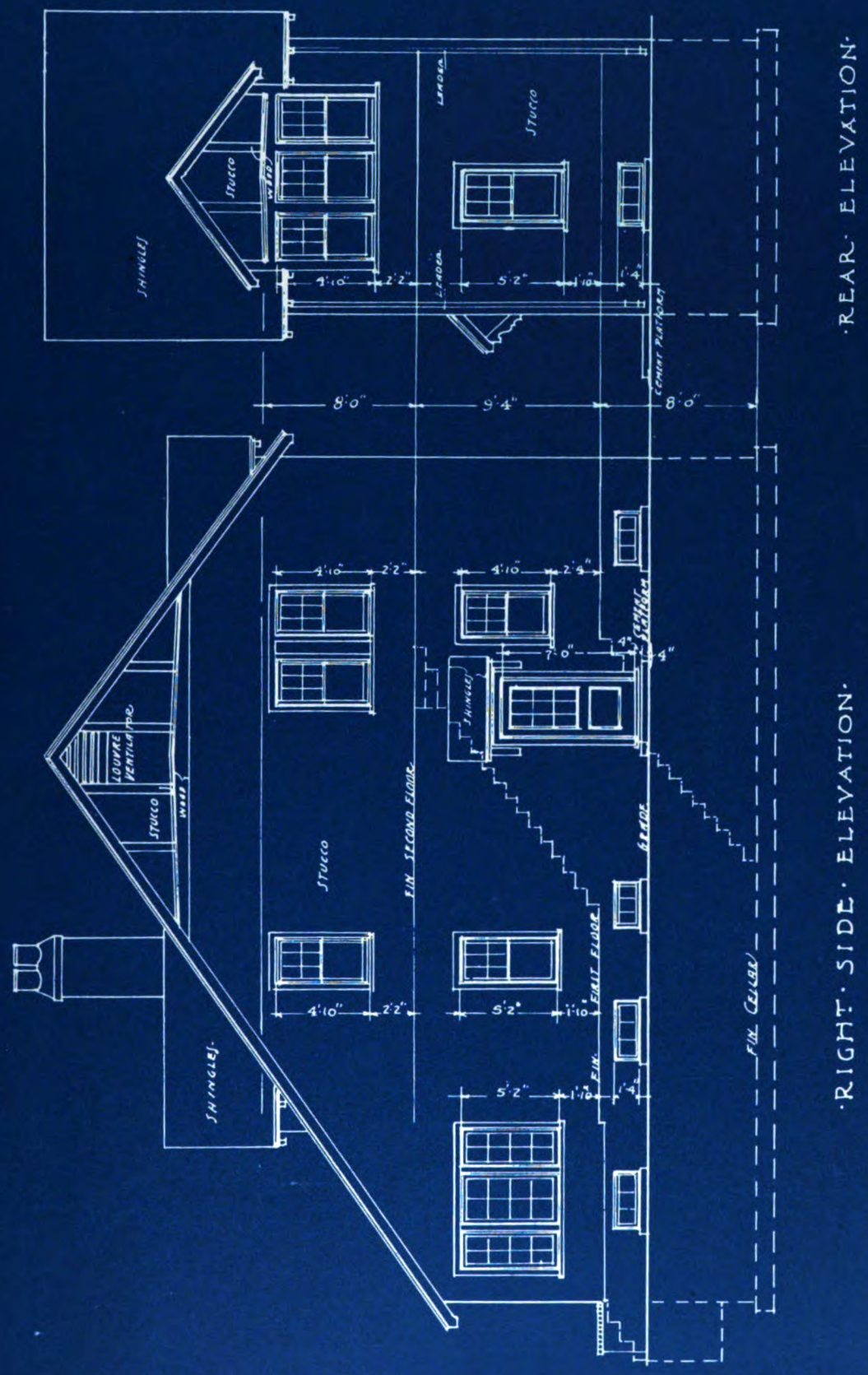
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BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS

Drawn by William Sanger

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Quantity Survey of Materials

Prepared by Walter J. Fradgley

For the Little English Cottage

EXCAVATION

Basement (two feet larger than wall measurement)	143	cu. yds.
Trenches and pier footings	7	cu. yds.
Back fill around foundations and footings	20	cu. yds.

MASONRY & IRON WORK

Concrete footings	171	cu. ft.
Concrete porch floor and step foundations	53	cu. ft.
Concrete basement floor 3" base, ¾" topping	492	sq. ft.
Common brick foundation walls	19,500	brick
Common brick for chimney	1,565	brick
Flue lining 8"x12"	60	lin. ft.
Cast iron cleanout door and frame	1	piece
Thimbles	2	pieces
Ash dump for fireplace	1	piece
Fireplace damper	1	piece
Face brick for fireplace	172	brick
Fire brick	160	brick
Face brick-porch steps, etc	250	brick
Anchor bolts for wall plates	24	pieces

PLASTERING

Stucco on metal lath (exterior walls)	278	sq. yds.
Gypsum plaster on all interior walls and ceilings	486	sq. yds.
Basement walls and ceilings	126	sq. yds.

CARPENTRY

2"x8"	Wall plates	149	bd. ft.
2"x10"	Floor joist, 1st and 2nd joist	1,540	bd. ft.
1"x6"	Ribbons	84	bd. ft.
2"x4"	Ceiling joist, 2nd floor	224	bd. ft.
2"x6"	Roof rafters	1,064	bd. ft.
2"x4"	Exterior studs and plates	1,989	bd. ft.
2"x4"	Interior studs and plates	1,296	bd. ft.
1"x6"	D & M rough flooring	1,186	bd. ft.
	Floor paper under finished floors	10	squares
1"x6"	Roof boards	1,152	bd. ft.
2¼"	Face finished floors	1,288	bd. ft.
1"x8"	Shiplap sheathing	2,498	bd. ft.
	Roofing	11	squares
	Furring and grounds	250	bd. ft.
	Waterproof paper over sheathing	24	squares
1"x6"	Facia board and panel strip	120	bd. ft.
1"	M & B ceiling, roof projections	210	bd. ft.
	Basement coal bin partitions	120	bd. ft.

STAIRS

First floor to basement	1	flight
First floor to second floor	1	flight

MILL WORK

Closet shelving	72	lin. ft.
Chair rail—kitchen and bath	66	lin. ft.
Hook strip	72	lin. ft.
Base and quarter round	368	lin. ft.
Picture mould	232	lin. ft.
Wood mantel	1	piece
Kitchen cupboard	1	piece
Double drain board sink top	1	piece
Medicine cabinet	1	piece
Linen case	1	piece
Exterior doors (frames and trim complete)	2	openings
Interior doors frames and trim complete)	12	openings
Cased openings (frames and trim complete)	1	opening
Scuttle door (frames and casing complete)	1	opening
Basement doors (frames and trim complete)	5	openings
Triple windows (frames and trim complete)	2	openings
Casement windows (frames and trim complete)	2	openings
Triple windows (frames and trim complete)	4	openings
Single windows (frames and trim complete)	10	openings
Steel basement window sash and frames complete	10	openings
Attic louver ventilators	2	openings
Side entrance canopy and brackets complete	1	piece

PAINTING

Exterior woodwork	26	squares
Interior woodwork	24	squares
Finished floors	13	squares

SHEET METAL

Gutters	34	lin. ft.
Downspouts	23	lin. ft.
Elbows	6	lin. ft.
Chimney flashing	10	sq. ft.
Valley flashing	40	lin. ft.
Flash and counterflash	58	lin. ft.

TILE WORK

Tile floor and Wainscot in bathroom	224	sq. ft.

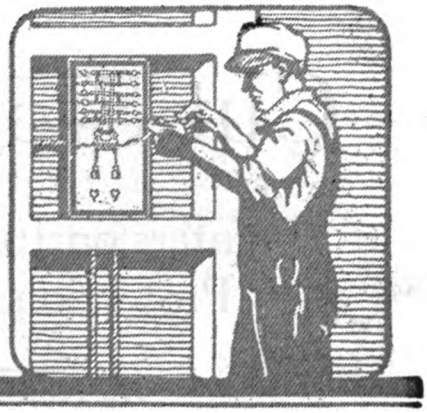
HARDWARE

4x4 exterior door butts	9	pair
Exterior door lock sets	3	sets
3½x3½ interior door butts	10	pair
Interior door lock sets	10	sets
Casement sash butts	14	pair
Casement fasteners	14	pieces
Casement adjusters	14	pieces
Double acting door hinges	1	set
Door bumpers	11	pieces
Coat hooks	5	dozen
2½x2½ butts	9	pair
Cupboard catches	9	pieces
Drawer pulls	4	pieces
Basement door hardware	5	sets
Window sash locks	16	sets
Window sash lifts	16	sets
Window sash pulleys	64	sets
Basement sash hardware	10	sets

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ELECTRICAL WORK

Wiring-Fixtures-Devices for Lighting and Power



Wiring a Small Home

FOR the sake of real economy (which is a necessary thing in the small home), an elaborate wiring system is not to be thought of. Still, comfort and convenience can be obtained by even a small number of light and conveience outlets.

Take for instance the small home that is illustrated in our blue print section. Here we have a typical case of a small five-room dwelling in which cost is necessarily limited, but it is well equipped.

On entering the first floor there is a porch light worked from a switch in the inside of living room. Quite often it is desirable to have lamps in the sun parlor, therefore, two plugs have been provided.

In the living room there is a central chandelier, controlled by a switch convenient to the dining room and the stairs. There are three convenience outlets in the base board in this room. There is also a threeway switch to light the upper hall, controlled by a switch that enables the light to be turned on or off up stairs independent of the switch down stairs.

In the dining room there is a central chandelier controlled by a switch at the kitchen door. There are also three base board convenience outlets which will take care of the lights, etc., on the buffet, serving table, etc.

The kitchen is provided with a central light operated by a switch at the dining room door. This placing of switches makes it very convenient when entering or leaving the room. Saving of current is an important item and when a meal is being served, the light may be shut off either room while passing through as desired.

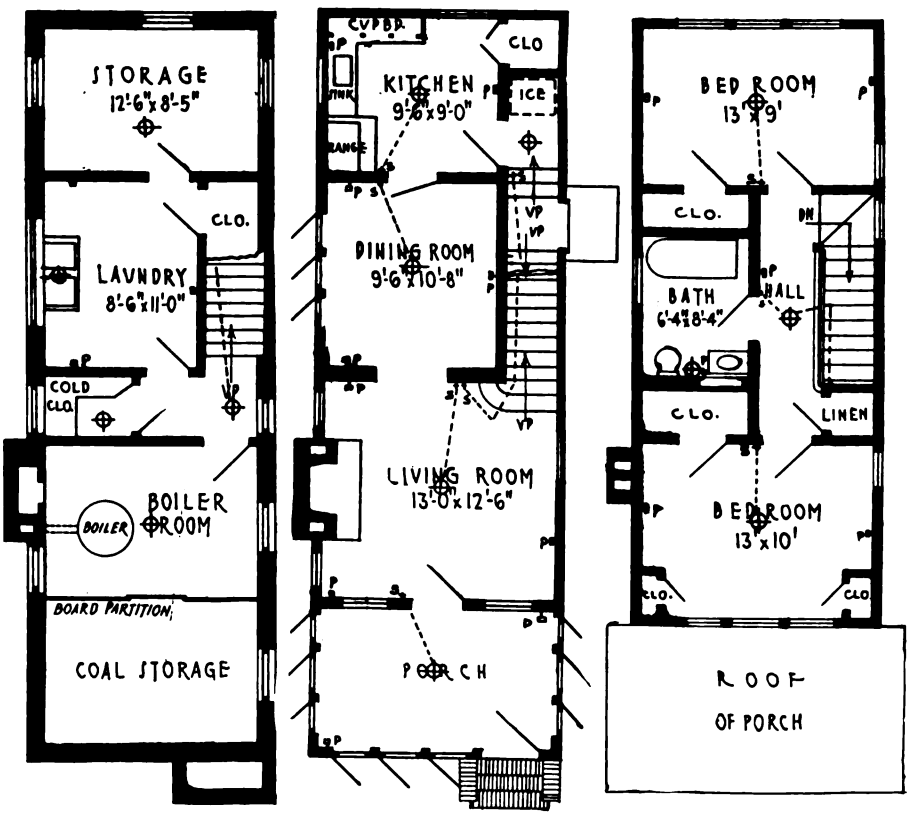
The convenience outlet over the sink will provide for any electrical appliance to be attached. A base-board outlet on the other side of the room allows for any attachments to be used on a small table designed to be placed along this wall.

In the small entry leading to side door there is a central light controlled by a chain pull which affords illumination to entry and ice box. At the head of stairs there is a switch which controls the light in cellar so that one will always have sufficient illumination to go down stairs. This is an important item in any house.

A light is placed in the boiler room just in the right location, in front of boiler or furnace. The cold closet is provided with a light as one frequently finds it necessary to go in here at night for provisions.

The laundry has a light directly over the wash tubs. To one side is an outlet for attaching a washing machine and on the side wall along stairs there is a convenience outlet for attaching an electric iron. A ceiling light placed in storage space completes the cellar equipment.

Up stairs each bedroom is provided with a central ceiling light controlled by a switch at entrance. Also two base board outlets. The bath room is provided with a side bracket and a convenience outlet to which may be attached an electric heater, curling iron, electric water heater, etc.



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Cut Stone Trim

Pointers on Its Handling and Protection on the Job

By Roy M. Singer

CONSTRUCTION of apartment houses has been in progress to a great extent in practically every part of the country, all cities receiving their proportion of the work. Not only in the large cities, but also in the smaller ones does this type of construction seem to be gaining in popularity, especially in the "close-in" portions of town where property values are high and living quarters in great demand.

The increase in the construction of apartment buildings has seen a corresponding increase in the use of cut stone, for it seems that this material is more generally used for moderate-sized apartment house trim than any other. Limestone, which is generally used, has a wide distribution in this country, and since the effects to be obtained with it are many, it is no wonder that it is so generally used.

There are many points in connection with the erection of cut stone trim which it is well for the contractor to bear in mind, and it will be attempted to give a few of them here.



Fig. 3. When not in use the gin-pole was tied to a tree, thus keeping it out of the way and in a place where it would not be damaged

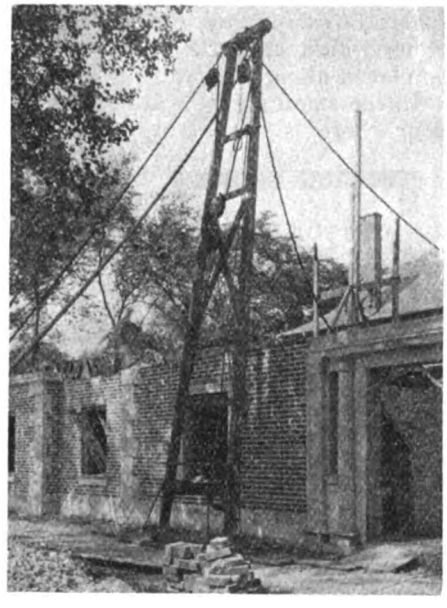


Fig. 2. This breast derrick was used to handle heavier pieces of stone that could not be lifted by hand. Notice the fore guys which prevent derrick from tipping over backward

The first point is the laying out on the ground of the stone so that the various pieces can be easily selected when they are required for use. With every stone job the stone cutter sends out a diagram in which the location of each piece of stone is marked. Each piece carries a number of a mark which corresponds to that on the diagram, and when the stone is delivered to the job the various pieces should be laid out in order as shown in the general view of the job in Fig. 1. Thus it will not be necessary to waste a lot of time looking for a particular piece when it is required.

Where the pieces are small, they may be carried up on a material elevator and set by hand, but where

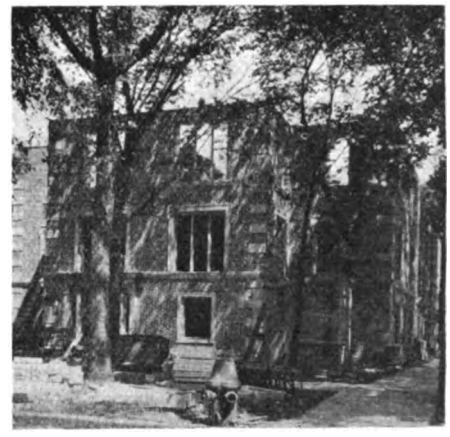


Fig. 1. A general view of the job

they are of such a size that they cannot be easily handled, a breast derrick, such as illustrated in Fig. 2, or a gin-pole as shown in Fig. 3, should be employed.

The reach of the derrick may be increased if desired by mounting a gin-pole upon it as a sort of extension. Notice in Fig. 2 that the derrick has guy lines running both in front and to the rear. While at first glance the front guys may seem to be unnecessary, this is not the case. They should never be omitted because they prevent the derrick from falling over backwards, an accident which may cost the life of a man.

It is always well to have a permanent anchor for the derrick, but in the case illustrated here, where the derrick would be used in one position only a short time before it

(*Please turn to page* 122)

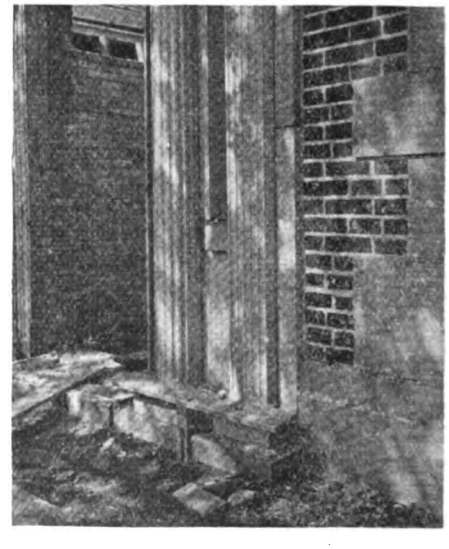


Fig. 6. This view shows how the column bases were protected by pieces of 1x6", supported from the ground by stakes

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PAINTING

Practical Points of Interest to the Builder

Measuring Work for Painting

By A. Ashmun Kelly

IN the first part of this article, published in June, we discussed measuring work for exterior painting.

We now pass to the measuring of interior paintings, starting with the woodwork and then proceeding to the ceilings, walls, etc.

The Woodwork. Begin with first floor and measure doors, one side only, excepting closet doors, measuring these on both sides. Run tapeline into all depressions, and count in one edge. Multiply height by width.

Measure frames to rabbet only, leaving the rest or other side for the next room or hall, as the case may be. Measure window frames same as door frames, also taking in stool at bottom. Measure sashes as given for exterior measurement. For baseboard and dado or wainscoting, you must get data from carpenter's specifications, as plants will not indicate height or character. Same with mantels; you will have to guess at them, or get some idea of size and character from the architect or owner; that is, if you are to do them.

Ascertain what kind of wood is to be used on each floor, and what kind of finish for same; also what materials or brand of stock are to be used. This refers to the floors. The latter may not be finished same as rest of the woodwork; usually they are not. As there are many ways of treating floors, whether of hard or soft wood, some methods involving considerable time and work, others comparatively little, it is important that you know just what the finish is to be.

Now measure the other rooms and other parts of the building. In houses of the better class there wlil be pantries, china closets, vestibules, back entries, etc., all of which must be carefully measured. Then there are clothes closets, and one or more bath rooms. Measure halls and landings and stairways. On the latter are the risers and treads, also balusters. Measure as you have been advised for other and similar work, running into quirks and moldings, etc., and getting all the surface there is, adding a little more in some instances; for example, where there is more elaborate work than common.

Measuring Interior Painting. Let us commence with the ceiling. We have first ascertained whether it is to be painted in oil or water paint. In the latter case, if the surface has to be prepared, as old walls and ceilings usually must be, allow double surface. And if in addition to being washed off and cracks treated, sizing must be done, then allow for all this preparation triple. This rule applies to water color work only.

If there is a cornice, the charge is the same for both wood and plaster. A cornice may contain much or little ornamentation, so that we are obliged to measure according to its character. Say that it consists of three or four moldings, each to be differently tinted, then allow twice the girth; if washed, sized and tinted around the room. If tinted in one color only, allow twice the girth. If washed, sized and tinted one color, allow three times the girth.

If the cornice has dentils, then allow three or even four times its greatest girth. This rule applies also to stucco or moldings on the ceiling. Where a cornice girths 12″, allow 18″; where net girth is 18″, allow 3′. Cornices decorated with leaves or other ornaments, allow 3′. Measure center piece same as cornice, carrying the tape around the outer rim, and charge according to number of tints, etc. Also, note amount of decoration and ornamentation on center piece.

Wall Painting. If no particular care is to be exercised in cutting around it, do not allow for openings. If woodwork is to be painted, allow for one-half the openings. Staircase walls, add one-third to total measurement and make no deductions for openings. China closets, triple surface measurement, with no allowance for openings.

Where walls are roughcast or sandfinished, add one-half to surface measurement, with no allowance for openings. This rule applies to both water and oil color work. Where walls or ceilings are to be stencilled or otherwise decorated, use your own judgment, as no rule can be laid down to cover such decorative work.

Painting Woodwork. Any part that will measure up to 4″ wide consider as 1′. From 6″ to 12″ in girth consider as being 2′ in girth or width. Where the measurement is from 12″ to 18″ wide, allow 3′. When corner block and plinth are a part of the frame, add 1′ to height of each side. If more or less ornate headers are in use, allow from three to six times the length. Full trimmed windows and shutters and inside blinds, measure around the back band, and if architrave is paneled allow a girth of 3′, otherwise measure as directed for plain painting.

For shutters on full trim windows,

(*Continued on page* 122)

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Floors Sell Houses

A new and empty house—Floors in their unaccustomed bareness literally fascinate your prospect's eyes.

Nothing makes a stronger impression. Don't show them dull and lifeless floors. Nor don't lead them over a glossy brittle surface that they tread gingerly for fear it will scratch.

Show them the mellow, durable, lustre of

Beautiful Waxed Floors

The only finish modern housewives will accept. Not only because it is beautiful and distinctive, but mainly because of its many practical advantages. Waxed floors do not show scratches, do not collect dust, and are the easiest floors in the world to keep clean. Never any sloppy scrubbing, never any expensive refinishing. Spots of heavy traffic can easily be retouched just as needed.

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You do not have to buy it. It is available to all users of Johnson's Wax at a very nominal rental at any Johnson Branch or any store maintaining a Johnson Service Department.

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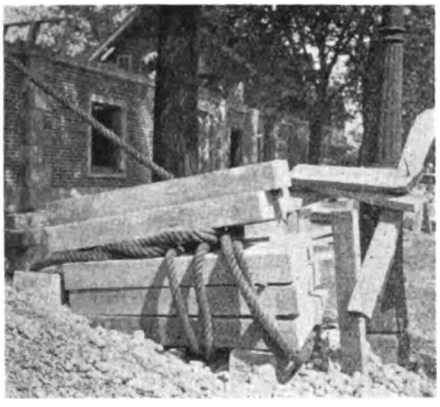


Fig. 4. The derrick guys were held as shown here. Care must be taken in providing sufficient weight of stone

Cut Stone Trim

(*Continued from page* 118)



Fig. 5. Stone sills were protected by a temporary top sill consisting of a piece of scrap 1x6" tacked to frame

was required to move it along, this was not considered feasible. Therefore the method shown in Fig. 4 was used. This consisted of wrapping the guy lines about some pieces of stone, depending upon the weight of the stone to balance the weight of the derrick and its load. In doing a thing like this, one must be sure that there is sufficient stone in place to carry this load with a high margin of safety lest an accident occur.

One unfortunate fact is that many contractors make no attempt to protect stone trim from damage once it is in place. The protection required is very slight, yet it may be the means of preventing an ugly scar due to a brick or other object falling on the piece of trim and chipping it. Two examples of simple protection are shown in Figs. 5 and 6.

Fig. 5 shows a window sill protected against damage by falling objects. All that was required was a piece of 1x6" the same length as the sill. This was tacked to the window frame and left in place until the building was cleaned.

Fig. 6 shows the manner of protecting the bases of stone columns. A piece of 1x6" was employed here also; it was notched out to fit over the bases and supported from the ground with a wood stake as shown in the illustration. Protection for stone trim is inexpensive and is well worth while. It is a mighty ugly thing to see a chipped piece of trim in an otherwise good-looking wall.

Measuring Work for Painting

(*Continued from page* 120)

if folding allow 1′ girth for each face of fold if plain molded. Paneled shutters, allow 18" for each face or fold. If shutters have also slats or blinds, allow three times the width of each face of fold.

Sub-base or Washboard. When not more than 10" high, allow 12". If above 12" high, allow 15"; in either case including molding with board.

Shelving. When up to 1′ in width, allow one and one-half times the surface measurement. For strips cut in on one edge allow four times the width.

Dado. Paneled allow from two to three times the width. If sheathed with cap and base, allow twice the width.

Stairs. Are to be measured from top edge of base to extreme edge of stringer for girth; for length measure risers and treads, and add one-half the length. Same rule applies to case where stairs are cut-down (with paint, etc.).

Hand Rail and Balusters. Measure from tread up longest baluster, around hand-rail, and down tread. Same rule where there is paneled work below balustrade. Measure newel post in its greatest girth when getting length of stair balusters. Fancy balustrades, allow six times the height of the baluster by the length.

Sashes. If two or more lights, measure square. Twelve or more lights, add one-half or double, according to character of work on same. Fancy sash, multiply length by three times width.

Sheathing. Plain, allow one and one-half times. Beaded, allow an additional inch for each bead, adding to above measurement.

Mantels. Plain, measure square and multply by three; no allowance for openings. Ornamental mantels, square measurement, multiplied from five to ten times, according to character and amount of work, with no allowance for openings.

Moldings, beads, and strips of less than 4" wide, and separated from other finish, allow 1′, minimum measurement, for width.

Blinds. Plain slats, multiply length by three times girth. Movable slats, multiply length by four times girth. See rule for blinds in exterior painting.

Floors. Plain, one and one-half times measurement. Hardwood with plain center and border, allow double surface. Parquetry, any pattern, three to five times surface measurement.

Doors and Window Frames. Plain or with transom, not over 6" girth, allow 1′ for girth, and multiply by length all around. Above 6", allow double. For paneled frames all three times girth by length all around.

Batten Doors. Measure square with one-half added, and add 1" for each bead to width measurement. Paneled doors, multiply length by twice width. Edges should be measured double.

Columns and Pilasters. Measure as directed for same in interior painting. Pilasters should be measured two-thirds of column measurement.

Scaffolding. For work when required, either inside or outside must be estimated for. There will be a proper charge for any staging requiring services of a carpenter, or that is not in the regular work of painters. What this shall be must rest with the painter's judgment and his actual knowledge of the cost to him.

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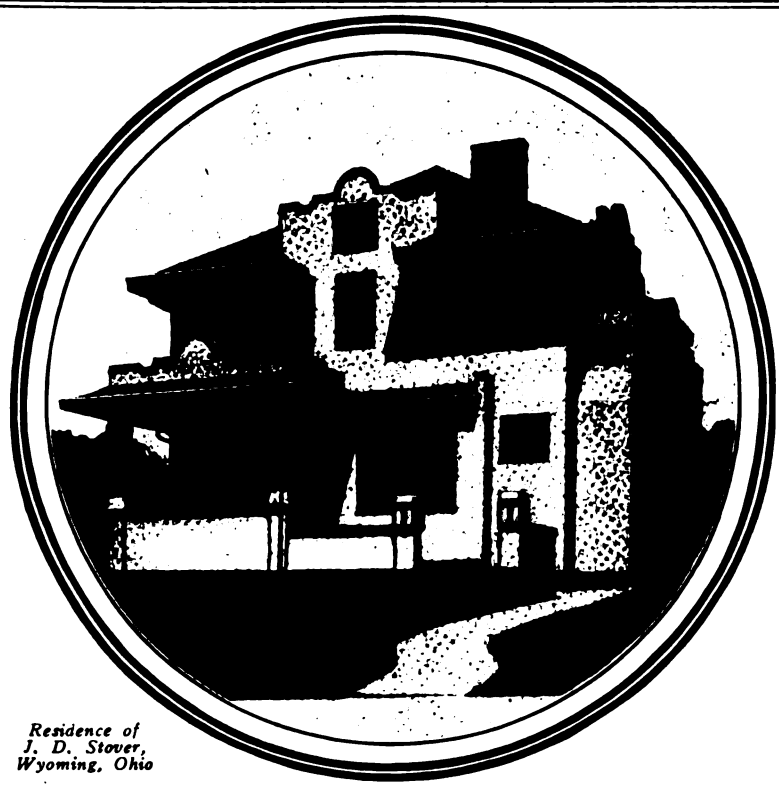
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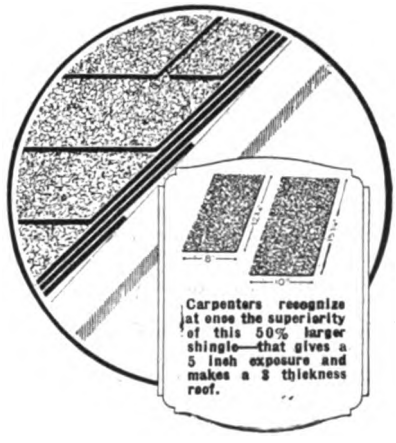
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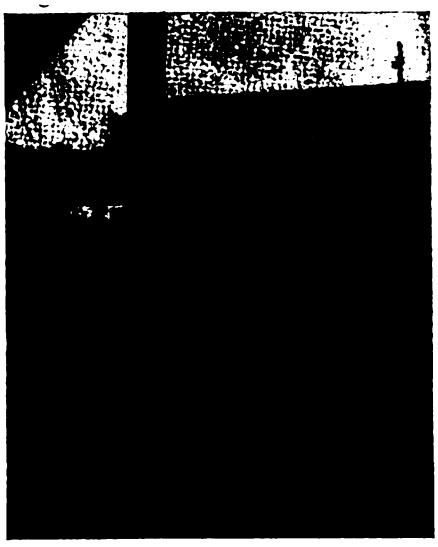
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On the Job with the Construction Editor

Level Mark for Foundation

IT is customary to mark the height to which foundations are to be poured by a nail driven into the inside face of

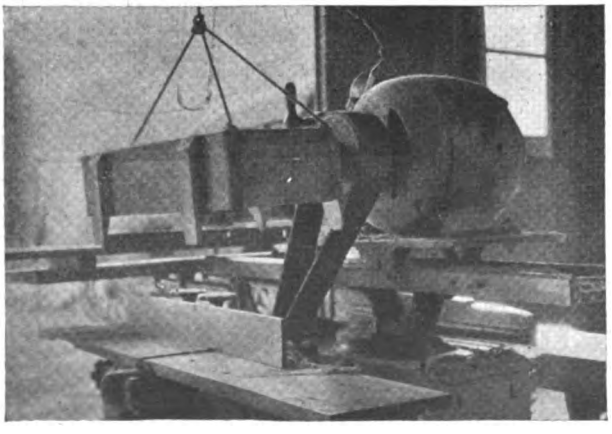


the form at the proper level. H. B. Whitman, a builder of Salt Lake City, Utah, has another way of marking. Instead of simply setting a nail, he fixes a small block to indicate the pouring level. This has an advantage over simply setting a nail in that the block is not liable to be covered up or put out of place as is the nail. Even the temporary marker should be fixed securely.

A Saw Guard

WHEN thin or narrow pieces are to be cut on a circular saw, the use of this protecting box, utilized by David Oliver, of Evanston, Ill., may be instrumental in preventing an accident to a workman.

The box is set on legs, so that there is plenty of room for the piece to be cut to pass underneath. The safety feature of this kink is in the fact that the box encloses saw while piece is being cut. If the box is hung on a pulley and balanced with a sash weight, it may be readily and easily lifted out of the way.



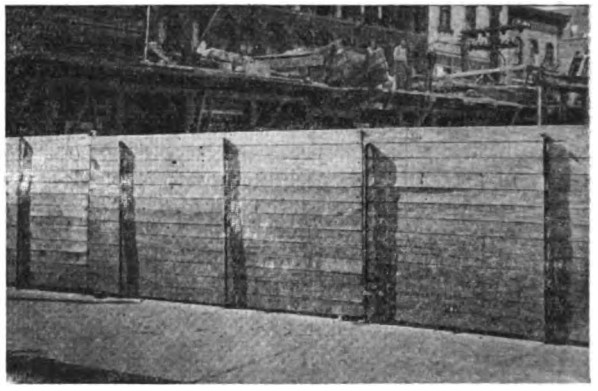
EVERYWHERE in my travels from place to place, I find each branch of the building fraternity eager to lend a helping hand to the rest. It is this spirit of cooperation that is behind the steady progress of the industry. It is interpreted most intimately in the willingness of each builder to contribute to the general fund, the ideas and methods he has found profitable. Publishing them for fellow builders may add a little to their profits.

Sincerely,

Roy A. Singer.

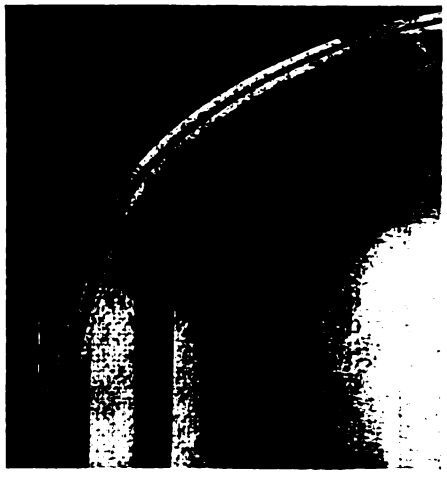
Old Pipe for Fence Posts

THIS illustration shows how the North-Eastern Construction Co., of Binghamton, N. Y., used old pipe for fence posts, thus saving the cost of a considerable amount of lumber which would otherwise have been used. The pipe was obtained from an old building on the site which was wrecked to make way for the new structure. Thus, a double purpose was served by the pipe.



Lath Sprung to Form

CUTTING an arched opening out of 2x10" is something of a job, but according to Mr. McCudden, of McCudden & Allison, builders, of Sioux City, Ia., there is an easier way to do it, as shown in the accompanying illustration. Metal lath is fastened to the bent wood.



Pipe Marking

NEW lead pipe is expensive, and also expensive to lay, hence this little stunt may help you save some money.

Where lead pipes are covered by a rough floor there is always the danger that the steam-fitter may cut through the floor and through the pipe, but if the line of the pipe is marked on the floor as shown here, there will be little danger.



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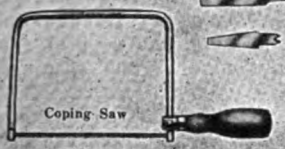

No. 65. Regular


No. 100. Flooring Saw


Plumbers' Saw

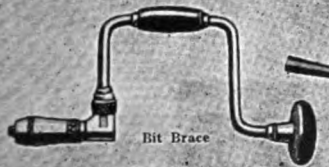

Compass Saw


Handy Tools


Coping Saw


AAA Grass Hook

Lever Saw Set


Bit Brace


No. 7. Pruning Saw

No. 11. Pruning Saw


No. 82.


Junior Mechanic

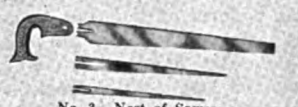

No. 21. Metal Cutting


No. 64. Regular


Carpenters' Handy Saw

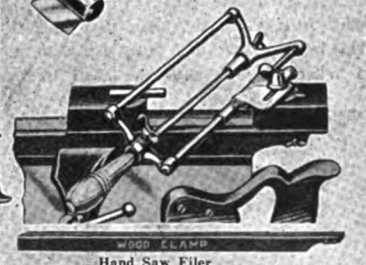

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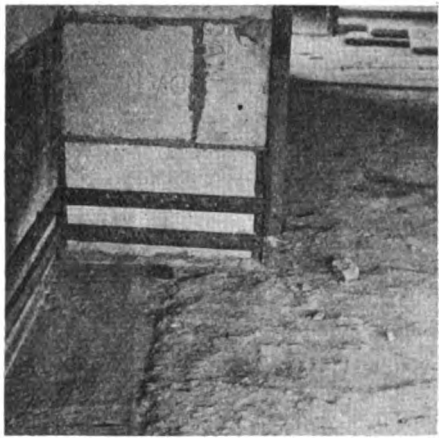
THE FINEST ON EARTH

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On the Job with the Construction Editor

Fastening Grounds In Gypsum Partitions

THIS method of fastening grounds was used on a job by Charles Weitz & Sons, of Des Moines, Ia. At the corners a vertical ground is set in the parti-

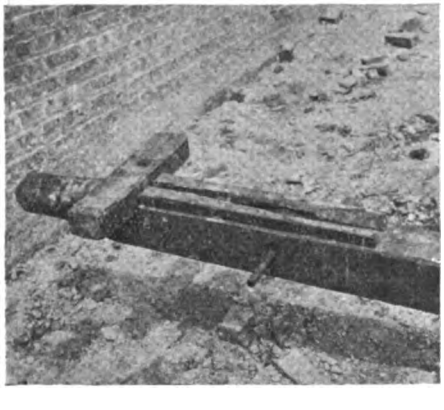


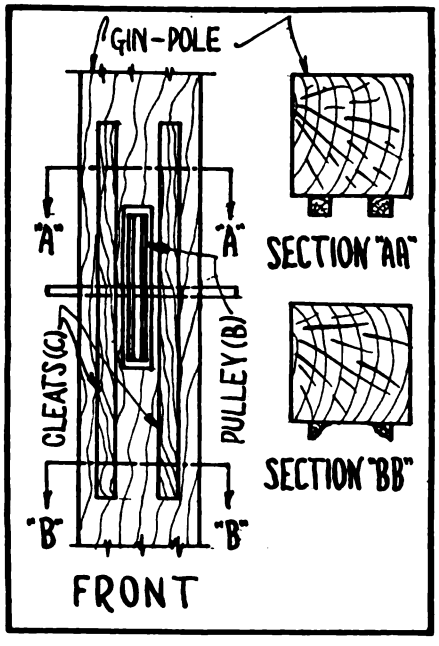
tion and the base grounds nailed to it. This provides for holding the grounds fast at the corners.

Preventing Wear in Gin-Pole Ropes

WHERE light steel work, or wood trusses are to be set it is customary to use a form of hoisting apparatus commonly referred to as a gin-pole, the load is generally handled by hand, excepting on the larger steel erection jobs where mechanical hoists are used.

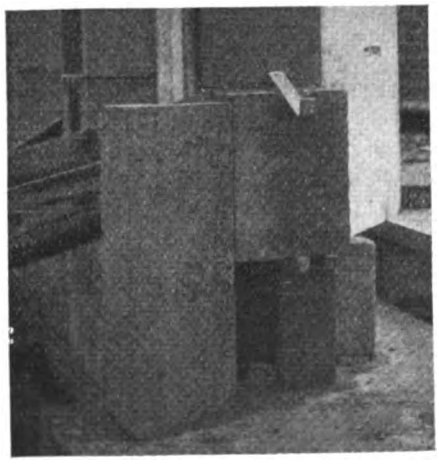
Where the hoisting line is rope, there is a great possibility that considerable wear will occur due to the hoist line rubbing against the corner of the pole when a load is dragged into position preparatory to being lifted. To prevent this wear, two cleats (C) should be attached to the top of the pole, one on each side of the pulley. They should be cut out at the bottom so that they form a groove into which the hoist line will fit. This





will serve to lead the line away from the groove between the pulley (B) and the hollow into which it is set. It will also work to overcome the tendency of the line to slip off the pulley, and will prevent the line from rubbing on the corner of the pole in case a load is dragged from the side.

Hooks for Holding Stone Trim



WHERE the bond for cut stone is not sufficient to hold the stone in place the steel hooks shown here may be used to advantage. They may be set in the mortar joints and the bent-up edges dropped into holes in the stone which are cut out for them. This photograph was taken in Nashville, Tenn., on a job being done by the Hegeman Harris Co.

Filling Pipe Chases

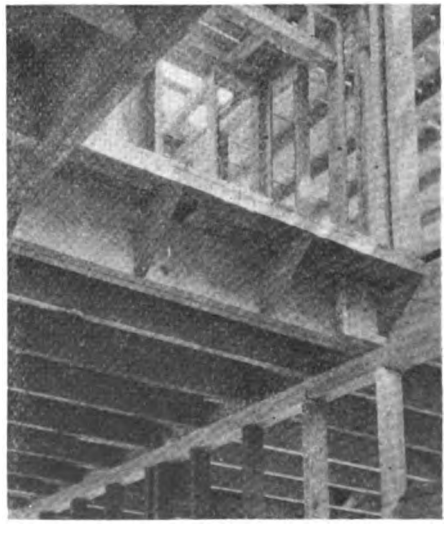
HERE is a little detail often overlooked, but one which makes for better construction. The illustration shows a pipe chase filled with concrete mortar so that the wall is made more solid. As this was an interior bearing



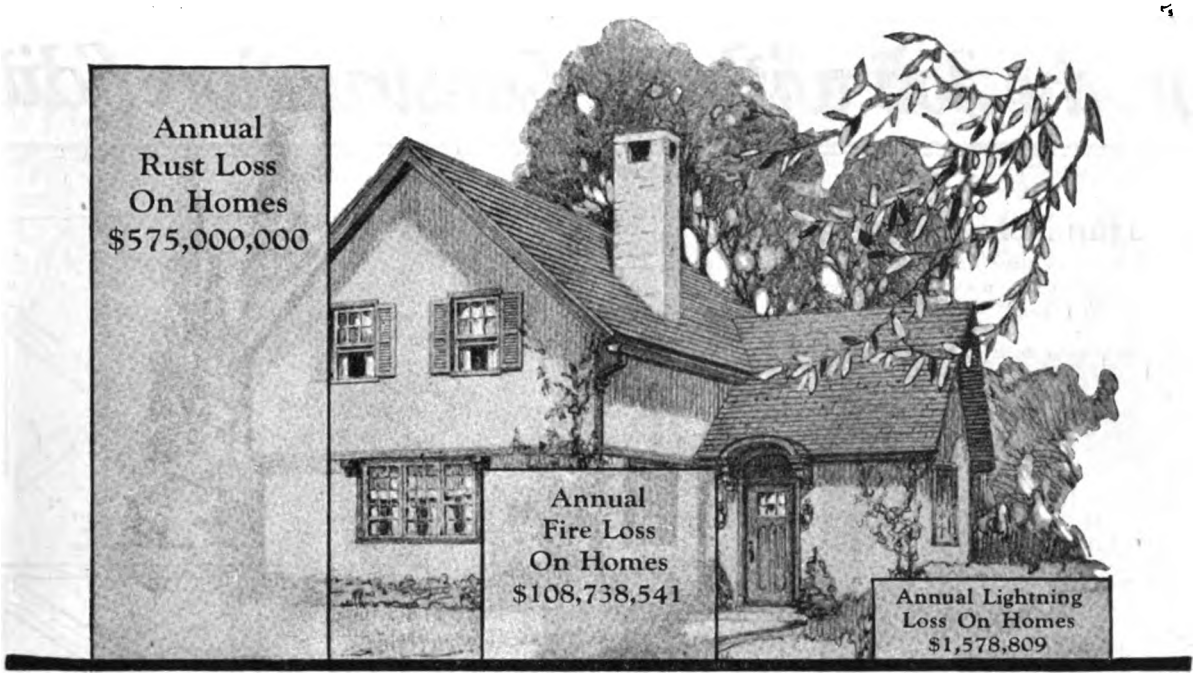
wall, plaster was to be applied without lathing, hence the face of the mortar fill was scored to furnish plaster bond.

Conserving Head-Room

THIS illustration shows how John Zwickey, builder, of Seattle, Wash., solved the problem of conserving headroom over a stair opening. Instead of allowing joists to run through and so block the opening, the support for the floor at the edge of the opening was formed of diagonal pieces of 2x4", toenailed to the joist at the bottom and carrying a 2x4" at the top. The flooring was carried past the joist and supported on the 2x4".



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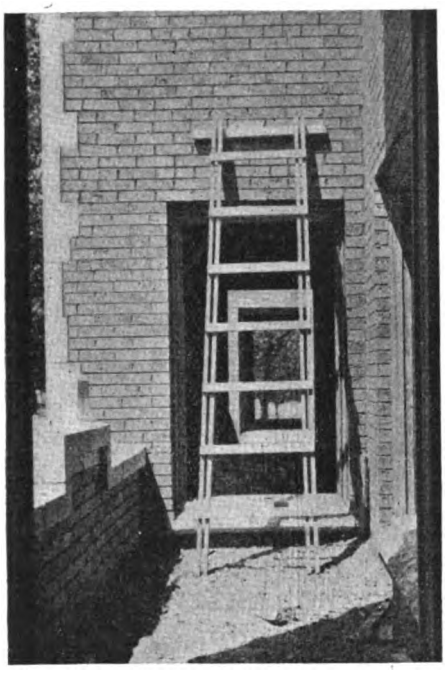
ANACONDA COPPER
BRASS ANACONDA BRONZE

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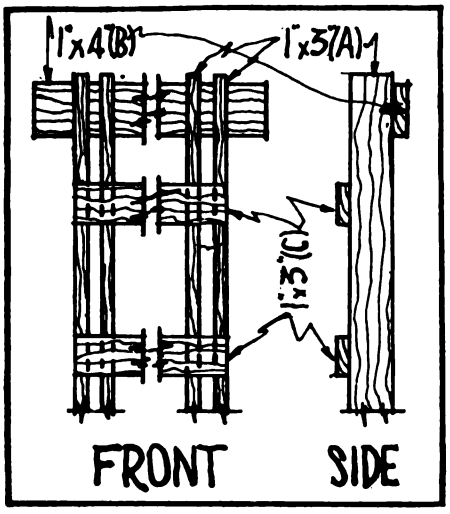
On the Job with the Construction Editor

A Handy Ladder

THERE are many uses on a job for a light ladder that may be easily moved about and readily carried from



floor to floor without much trouble. These conditions demand that the ladder be light in weight and for this purpose the one shown in the accompanying illustration may be found to be useful.



While it is not recommended as safe for every condition a ladder may be subjected to on a job, it is, nevertheless, admirable for the use intended. It must not be used for carrying heavy loads from floor to floor, nor must it be subjected to constant use as would be a ladder used as a means of communication from floor to floor.

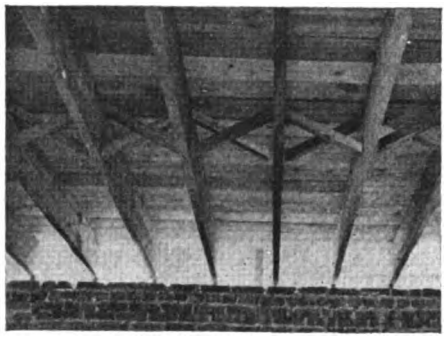
Its greatest value is to the electrician or other mechanic engaged in "finishing."

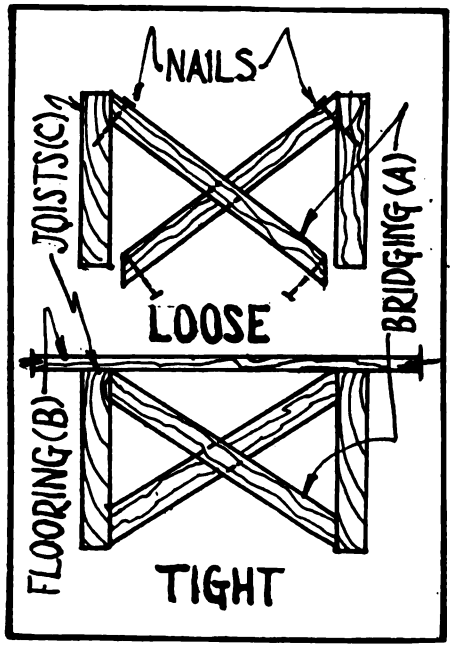
This ladder is easy to build, and requires but little labor and material. The legs (A) are 1"x3", the bearing piece (B) at the top is 1"x4", and the rungs (C) are 1"x3". The bearing piece (B) at the top should not be omitted since it serves to distribute the ladder load over a greater area of wall than if it were omitted.

The Proper Way to Set Bridging

THERE is a good deal more to setting bridging than simply nailing cross-pieces between the joists. It is essential that these cross-pieces be nailed tightly in order that they may stiffen the joist system and help handle the load. Loosely set bridging is absolutely ineffective and may as well be omitted.

There are two steps in nailing bridging. The first is setting the cross-pieces in place before the floor is laid, by nailing them at the upper ends. Then the





floor is put on. The final step is nailing the bridging at the lower end. If the floor is already in place, and the bridging nailed at the top, it is easy to see that by nailing them at the bottom they are driven up and wedged tightly between the joists. In this manner, they perform their required function as a part of the floor supporting system.

Most builders know this, of course, but the younger ones and a few of the older ones, perhaps, may never have stopped to consider why bridging is set in this manner.

Fastening Signs

THIS Los Angeles, Cal., contractor provided for signs so that the latter could be removed without defacing the wall should the necessity arise.

Two wood strips, about 1x3", were fastened to the building all along the front, so that letters could be fastened to them. When the signs were taken down no holes were left in the wall and no outlines of letters remained since the letters were kept about an inch away from the face of the wall.



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Review of Building Situation

BUILDING during June reached another enormous monthly total according to F. W. Dodge Corporation. The total, $540,609,600 (exclusive of the Gulf District) exceeded May by 9 per cent. and June 1924 by the astounding increase of 40 per cent. April last, the highest record figure, was only 7 million in excess. That a June total should exceed May is in itself unusual. Contemplated new work was $667,876,600, 54 per cent. greater than June a year ago.

In New England, the monthly total was 26 per cent. over last year's record. The amount, $42,963,200, was distributed as follows: residential, 39 per cent.; commercial, 26 per cent.; and the remainder evenly distributed among public, industrial and educational.

The report from New York District included an increase of 8 per cent. over May and 33 per cent. over June last. 45 per cent. of the total, $121,996,500, went for residential and 29 per cent. for commercial with the balance quite evenly distributed. New work was nearly double that of last year.

Last month's building contracts in the Mid-Atlantic States were only slightly under $45,000,000, representing an increase of 11 per cent. over June 1924. 48 per cent. of this went for residential. Contemplated new work was $70,215,700 or 18 per cent. in excess of June last

From the Pittsburgh District comes the report that June totals were $62,983,100, an increase over the previous month and over June last. New work was 61 per cent. more than a year ago.

The highest monthly figure on record for the Middle West District was reached in June contracts. Of the $181,129,900 total, 35 per cent. was attributable to residential and 22 per cent. to educational.

Another increase over June 1924 was recorded in the $12,466,400 total for the Northwest, 33 per cent. of this was contributed by residential work. The amount of contemplated new work remained practically constant.

While May was a record month for the South Atlantic District, June contracts bettered this by 3 per cent. The total, $74,265,800, represents an expenditure of 33 per cent. for residential and 29 per cent. for public works.

June contracts in Gulf District were $20,442,200, an increase of 61 per cent. over May and somewhat under June a year ago. 50 per cent. went for homes. The $26,088,600 in new work was almost 50 per cent. over the previous month.

Record of June, 1925, Building Contracts Awarded

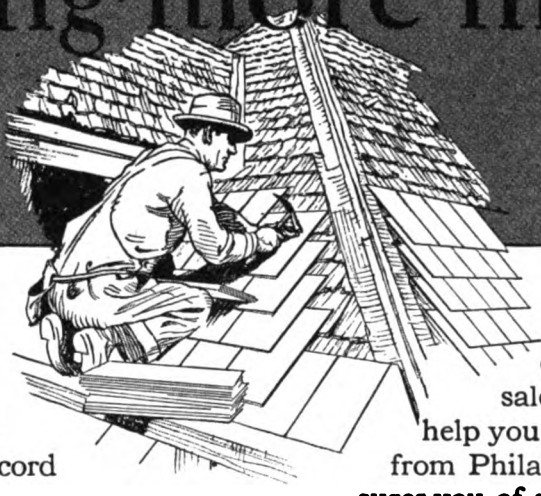
Classification of Buildings	SECTION OF COUNTRY New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North West District	South Atlantic District	Gulf District	Totals
Commercial Buildings	$11,293,900	$35,462,600	$4,744,000	$7,372,300	$21,568,600	$2,072,000	$9,638,500	$4,747,100	$96,899,000
Educational Buildings	4,354,600	5,364,000	4,040,400	5,685,500	39,762,500	1,013,500	4,384,300	2,976,600	67,561,400
Hospitals, etc.	841,500	[illegible]	[illegible]	379,000	2,530,500	97,300	1,450,300	220,800	8,712,300
Industrial Buildings	4,487,000	[illegible]	[illegible]	6,300,300	397,000	6,706,000	899,000	26,060,400	
Military and Naval	.....	40,000	[illegible]	[illegible]	[illegible]	.....	120,000	.....	751,100
Public Buildings	221,700	1,402,300	521,900	391,100	489,800	226,000	1,195,000	5,600	4,453,400
Public Works	2,975,300	8,023,200	7,350,300	14,777,000	34,076,400	4,090,600	21,622,900	742,800	93,658,500
Religious & Memorial	1,137,000	7,096,300	1,051,500	4,152,000	3,823,000	421,800	3,416,400	295,500	21,393,500
Residential Buildings	16,653,300	54,870,000	21,481,000	24,792,300	62,721,500	3,663,100	24,401,300	10,295,300	218,877,800
Social & Recreational	1,018,900	6,017,500	2,096,100	2,018,900	9,457,300	485,100	1,331,100	259,500	22,684,400
Total	$42,963,200	$121,996,500	$44,804,700	$62,983,100	$181,129,900	$12,466,400	$74,265,800	$20,442,200	$561,051,800

Building Projects Contemplated, June, 1925

Classification of Buildings	SECTION OF COUNTRY New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North West District	South Atlantic District	Gulf District	Totals
Commercial Buildings	$3,941,900	$30,319,100	$6,667,000	$4,463,100	$24,538,600	$1,189,000	$13,262,400	$5,099,600	$89,480,700
Educational Buildings	3,840,000	5,201,400	4,879,700	3,665,000	17,533,100	1,798,300	15,903,900	1,822,500	54,643,900
Hospitals, etc.	1,087,500	709,000	1,344,000	194,000	15,035,000	25,000	1,951,500	145,800	20,491,800
Industrial Buildings	2,139,000	4,245,100	3,349,500	2,666,000	7,681,800	1,346,000	10,672,000	1,124,000	33,223,400
Military and Naval	.....	212,700	.....	.....	20,000	.....	60,000	.....	292,700
Public Buildings	203,000	760,000	412,500	49,000	457,000	94,000	1,614,000	232,600	3,822,100
Public Works	6,421,500	11,920,900	7,283,200	24,578,900	34,923,300	1,481,000	40,886,800	5,669,200	133,164,800
Religious & Memorial	548,000	5,251,000	5,698,000	1,427,000	4,173,500	62,000	4,425,800	607,000	20,192,300
Residential Buildings	22,961,200	86,161,600	40,586,300	29,150,400	69,240,200	4,154,400	32,714,700	10,731,600	295,700,400
Social & Recreational	1,077,500	16,339,000	1,995,500	5,927,900	11,884,300	577,100	4,495,500	656,300	42,953,100
Total	$42,219,600	$161,119,800	$70,215,700	$72,121,300	$185,486,800	$10,726,800	$125,986,600	$26,088,600	$693,965,200

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Trend of Material Prices

THE following are wholesale prices of basic building materials in the three markets which set prices for the rest of the country.

These prices are presented to show the trend of the wholesale market, which forecasts prices in the retail market. They are not prices which the average contractor can buy at, but are quoted to show him the movement of materials so that he can buy to better advantage. All prices are for carload lots, F. O. B. market quoted, unless otherwise noted.

Following in conjunction with the Review of Building Situation these prices will prove invaluable.

NEW YORK PRICES

	June 25	July 25
LONG LEAF YELLOW PINE—		
B. & Better Edge Grain Flooring, 25/32x2¼" Face	$86.00	$86.00
Dimensions, S1S1E, No. 1 Common, 2x4 in., 10..	43.75	43.75
Timbers, Merchantable, 05, 12x12", 10 to 20'....	53.00	53.00
B. and Better Ceiling, ½x3¼.....	42.00	42.00
B. and Better Partitions, ½x3¼ in.....	56.00	56.00
B. and Better Finish, 1x4".....	68.25	68.25
No. 1 Common Boards, 1x8".....	49.75	49.75
NORTH CAROLINA PINE—		
No. 2 and Better Flooring, 13/16x2½".....	$62.00	$62.00
Roofers, 13/16x5½ in.....	33.50	33.50
DOUGLAS FIR—		
No. 2 Clear and Better V. G. Flooring, 1x3"....	$66.50	$66.50
No. 1 Clear V. G. Flooring, 1x4 in.....	69.00	69.00
No. 2 Clear and Better Ceiling, ½x4 in.....	41.50	41.50
No. 2 Clear and Better Novelty Siding, 1x6"....	54.00	54.00
No. 2 Clear and Better V. G. Stepping.....	91.25	91.00
WESTERN RED CEDAR—		
B. C. Perfection Shingle, per M.....	$7.23	$7.23
Washington Perfection Shingles, per M.....	6.83	6.83
Clear Bevel Siding, ½x6 in.....	45.25	43.75
CANADIAN SPRUCE—		
No. 1 Lath, 1½".....	$7.50	$7.50
Dimensions, 2x4", 10 to 16'.....	36.50	36.50
HARDWARE FLOORING—		
Clear Quartered White Oak, 13/16x2¼".....	$152.50	$150.50
Clear Plain White Oak, 13/16x2¼".....	102.00	102.50
Clear Plain Red Oak, 13/16x2¼".....	93.50	94.00
Clear Maple, 13/16x2¼".....	101.00	101.00
(All lumber prices furnished by The Lumber Manufacturer & Dealer)		
COMMON BRICK—		
Per M. f. o. b. job.....	$19.50	$19.50
PORTLAND CEMENT—		
Bbls. in car lots to contractors, delivered.....	$2.50	$2.50
STRUCTURAL STEEL—		
Per 100 lb. at warehouse.....	$3.24	$3.24
CRUSHED STONE (cu. yd.)—		
¾ in.....	$3.20	$3.25
1½ in.....	3.10	3.15
WALL BOARD—		
Per 1,000 sq. ft. in lots under 1,000 sq. ft.....	$50.00	$50.00
Per 1,000 sq. ft. in lots 1,000 to 2,500 sq. ft.....	45.00	45.00
METAL LATH—		
2.2 lb.—26 gauge, price per 100 sq. yd. delivered..	$0.21	$0.21
2.8 lb.—24 gauge, light, price per 100 sq. yd., deliv.	0.25	0.25
3.4 lb.—24 gauge, heavy, price per 100 sq. yd. del.	0.29	0.29
(Add 5 cents per sq. yd. for galvanized.)		
LIME (Hydrate)—		
Finishing, per 50 lb. bag.....	$0.60	$0.60
Masons, per 50 lb. bag.....	0.40	0.40
SAND AND GRAVEL—		
Sand (per cubic yard).....	$2.15	$2.15
¾ in. Gravel (per cubic yard).....	3.00	3.00
1½ in. Gravel (per cubic yard).....	3.00	3.00
FACE BRICK—		
Tapestry (delivered).....	$47.00	$47.00
Harveale (delivered).....	43.00	43.00
Caledonian (delivered).....	45.00	45.00
Smooth Grey (delivered).....	46.00	46.00
Fiske Lock, f. o. b. factory.....	39.50	39.50
SHINGLES—		
Asphalt, Single (per square).....	$6.50	$6.50
Asphalt strip (per square)	7.00	7.00
STAINED WOOD SHINGLES—		
10 in. Extra Clear (per square, delivered).....	$10.75	$10.75
18 in. Eureka (per square, delivered).....	11.00	11.00
18 in. Perfection (per square, delivered).....	12.00	12.00
24 in. Royal (per square, delivered).....	12.00	12.00
VITRIFIED SEWER PIPE—		
4 in. (cents per foot).....	$0.12	$0.12
6 in. (cents per foot)	0.18	0.18
SLATE ROOFING—		
Slatington, 8x16 in. per sq. at quarry.....	$8.40	$8.40
CORNER BEADS (Galvanized)—		
Per foot	$0.04	$0.04
WALL TIES (Galvanized)—		
Per thousand	$3.75	$3.75
FLUE LINING—		
8½ x 8½ in., per foot.....	$0.34	$0.34
8½ x 13 in., per foot.....	0.45	0.45
HOLLOW TILE—		
8 x 12 x 12 in. heavy. Each, delivered.....	$0.25	$0.25
HAIR—		
Per bushel.....	$0.60	$0.60
PLASTER BOARD—		
32 x 36 x ⅜ in. Each.....	$0.26	$0.26
MAGNESITE STUCCO—		
Per ton.....	$43.00	$43.00
TILE—		
1 in. Square or Hexagon, White, per sq. ft...	$0.27	0.27
3 x 6 in. White Wall.....	0.60	0.50
8 x 8 in., Red Floor.....	0.45	0.40

CHICAGO PRICES

	June 25	July 25
YELLOW PINE—		
Boards, 1 x 8, No. 1 Com.....	$40.00	$40.00
Ceiling, ⅝ x 4 B. and Btr.....	42.00	42.00
Dimension No. 1, 2 x 4, 12 to 14 ft.....	31.00	31.00
Drop Siding, 1 x 6, B. and Btr.....	51.00	51.00
Finish, 1 x 4, B. and Btr.....	58.00	58.00
Flooring, B. and Btr. E. G., 1x3.....	85.00	85.00
Lath, 4 ft., No. 1.....	6.20	6.20
Timbers, Long Leaf No. 1, 10-20 ft., S4S, 6x12 to 12 x 12.....	50.00	50.00
HARDWOODS—		
Maple Flooring, 13/16 x 2¼ in. clear.....	$99.00	$96.00
Oak Flooring, ¾ x 2, Cl. P., White.....	66.00	68.00
Oak Flooring, 13/16 x 2¼, Cl. Pl., White.....	101.00	98.00
REDWOOD—		
Bevel Siding, S1S1E, 8 ft., 20 ft., ½ x 4, clear	$34.25	$34.25
Finish, S2S or S4S, 1 x 6 to 8 in., clear.....	82.50	82.50
WESTERN RED CEDAR—		
Bevel Siding, ½ x 4, clear.....	$35.00	$35.00
Shingles, extra clear, 16 in.....	4.41	4.41
COMMON BRICK—		
Per M. f. o. b. job.....	$12.00	$12.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers	$2.20	$2.20
STRUCTURAL STEEL—		
Per 100 lbs. at warehouse.....	$3.00	$3.00

ST. LOUIS PRICES

YELLOW PINE—		
Boards, No. 1 Com. 1 x 4.....	$40.75	$43.00
Dimensions, No. 1, S1S1E, Short Leaf, 2 x 4 in. 12 x 14 ft.....	31.50	32.50
Finish, S2S, B. & Btr., 1¼ & 1½x5, 10 & 12 ft..	87.00	85.00
Flooring, B. and Btr., E. G., 1 x 3.....	78.00	80.00
Flooring, B. and Btr., F. G., 1 x 3.....	58.00	59.00
Lath, 4 ft., No. 1.....	5.60	5.90
Timbers, No. 1, rough, short leaf, 6 x 12 to 12 x 12 in., 10 to 20 ft.....	44.75	44.75
CALIFORNIA REDWOOD—		
Finish, S2S, Cl., 1 x 6 in.....	$82.50	$82.50
Siding, 4 in. Bevel, 8 to 20 ft.....	34.25	34.25
8 in. Colonial.....	66.75	66.75
8 in. Bungalow.....	47.25	47.25
HARDWOODS—		
Oak Flooring, ⅜x1½ & 2 in. clear, Qtr. White..	$107.00	$107.00
Maple Flooring, 13/16 x 2¼ in., clear.....	100.00	100.00
RED CEDAR—		
Siding, ½ x 6, clear.....	$42.50	$42.50
Shingles, clears, per M.....	4.46	4.46
COMMON BRICK—		
Per M. f. o. b. job.....	$18.00	$18.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers	$2.30	$2.30
STRUCTURAL STEEL—		
Per 100 lbs. at warehouse.....	$3.15	$3.15

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Instant Hot Water

REG. U.S. PAT. OFF.



KEYSTONE
(Premier Junior)
Gas Water Heater

Automatic, insulated. No. 2, suitable for average homes, at the factory **$90**

Duty extra in Canada

PREMIER
Automatic
Gas Water Heater

Four thrifty sizes. No. 2, for average homes, with double extra heavy galvanized tank. At the factory **$125**

Also with extra heavy copper tank, at factory **$235**

In Canada, add duty

Crane quality for every house you build

Regardless of how much or how little you wish to spend on the houses you build, the Crane line of storage gas water heaters provides a unit exactly meeting your particular requirements.

When building for those who appreciate supreme quality and service, install the *Premier*. Automatic and insulated, it stores a generous supply of piping hot water ready for instant use. Its asbestos-insulated tank holds all the heat in the water. It is simple and rugged. It runs itself and has no coils to lime-up.

For a dependable water heater at lower cost, choose the automatic, insulated *Keystone*. The non-automatic *Marvel* is the finest heater built at its price. All three are sold by responsible plumbing contractors everywhere; and displayed at the Crane National Exhibit Rooms.



MARVEL
Gas
Water Heater

Not automatic, not insulated. No. 32, for average homes, at the factory **$32**

Duty extra in Canada

CRANE

Address all inquiries to Crane Co., Chicago

GENERAL OFFICES: CRANE BUILDING, 836 S. MICHIGAN AVENUE, CHICAGO

Branches and Sales Offices in One Hundred and Fifty Cities

National Exhibit Rooms: Chicago, New York, Atlantic City, San Francisco and Montreal

Works: Chicago, Bridgeport, Birmingham, Chattanooga, Trenton and Montreal

CRANE EXPORT CORPORATION: NEW YORK, SAN FRANCISCO, SHANGHAI
CRANE LIMITED: CRANE BUILDING, 386 BEAVER HALL SQUARE, MONTREAL
CRANE-BENNETT, LTD., LONDON
CIE CRANE: PARIS, NANTES, BRUSSELS

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News, Notes, and Comment

Sesquicentennial Exposition

COMPLETION of the work for the Sesquicentennial International Exposition has been set for June 1st, 1926 and preliminary construction work has already been started upon the site.

The enterprise will follow plans and models that represent 20 years of work on the part of Dr. John Wesley Kelchner. The concession of this gigantic project includes the recreation of a 10 acre plot depicting the entire history of man from the time of the Chaldees to the fall of the Roman Empire. The central feature will be a tower rising to the height of 150 feet above ground level. The Temple of Solomon, corresponding in every respect to the measurements and description in the bible, will also be constructed together with complete citadels and precincts of the ancient cities of Greece.

Mr. Abrahams, Director of Concessions has announced that the project will be operated on a high plane with nothing to mar the reverent attitude from which the various biblical scenes will be presented.

New Building Course

A growing need for practical building courses as a part of the technical curriculum of the American College has manifested itself in the founding of a new course at the Sheffield School of Yale University. At the present time the course is an optional requirement in Civil Engineering.

Its object, primarily, is to train the students in the fundamentals of building construction. The present schedule does not class it as a course in architecture nor in structural design but rather one treating with the actual construction of large buildings. The aim is to give the student a practical knowledge of building methods and management.

In the Junior year the requirements include summer work either in New York and vicinity or in New Haven. This work will include the inspection and study of building methods found on actual operations. In the Senior year the studies take in masonry, architectural design and building construction. The latter covers in part working drawings, building materials, types of construction, cost analysis, etc.

Theodore Crane, Associate Professor of building construction is in charge of the new course and every step of the innovation has the whole hearted backing of well known architects and builders. In New York those who are cooperating include Hoggson Bros., Geo. A. Fuller, Thompson-Starrett Co., and Dwight P. Robinson.

Richard Whitmore Harr of Chevy Chase, Md., a member of the course, class of 1925, has been awarded the Thompson-Starrett prize of $2,500 for work of exceptional merit. Mr. Harr is the first recipient of Mr. and Mrs. Louis J. Horowitz award. According the provisions of the prize, Mr. Harr received practical training in building construction with Thompson- Starrett Co.



Richard Whitmore Harr of Chevy Chase, Md., 1st prize winner of the Thompson-Starrett building prize of $2,500

Keeping step with the commendable work done by the Sheffield School, various universities throughout the world are contemplating similar additions to their technical curriculum. The university of Michigan already is formulating plans and it has been reported that Chairs of Building Science and Art are being established at the University of Cambridge and the University of Manchester.

Crane 70th Anniversary

SIX hundred and sixty-five employes, all of whom have served with the Crane Co. 25 years or more were honored guests of the company at the Congress Hotel dinner in Chicago, which marked the opening of the Crane Seventieth Anniversary Convention. To commemorate the founding, a replica of the frame building in which Mr. R. T. Crane started the company, has been erected on the lawn in front of the Corwith plant, which is bounded by Kedzie Avenue, 39th St., Central Park Avenue and 43rd St., Chicago, one-half mile square.

New Use for Metal Lath

METAL lath has found hundreds of different uses in building—as a base for "better plastering." A recent news item, however, from the Milwaukee Corrugating Co., Milwaukee, Wis., discovers this material serving a use somewhat out of the ordinary—on shipboard. Both the "Greater Detroit" and the "Greater Buffalo," the world's largest lake liners, have been equipped with metal lath over which plaster has been applied as it is on land.

When the extreme stresses and vibrations are considered that this must undergo, the success of such installation is very commendable, indeed. The most severe conditions on land could hardly be compared to the duty that this material must undergo on board ship. We may add, then, to its fire-resistive qualities that it is crackproof even under unusual stress.

Of Trade Interest

The Cinder Concrete Corporation, organized under New York State laws, has obtained from Crozier-Straub, Inc., and from Cinder Products Corp., the sole and exclusive right to grant licenses under the Straub Patent and the Bo Patent for the manufacture and sale of cinder concrete products. All officers and men associated with both Crozier-Straub, Inc., and Cinder Products Corp. will retain their relationship with the industry in the new organization. Main office is located at 120 West 42nd St., New York, and branch offices are maintained at 416 Union Trust Building, Rochester, N. Y., and at 908 Park Bldg., Pittsburgh, Pa.

An interesting announcement, just made to the trade, is to the effect that R. E. Brooks Co., 50 Church St., New York, have taken on the complete line manufactured by The Ideal Concrete Machinery Co., Cincinnati, O. The R. E. Brooks Co. are an old established house with a reputation for service and are recognized as specialists in concrete and construction machinery. Traveling from their New York office they will serve the trade throughout Eastern New York State and Northern New Jersey.

On July first the Industrial Advertising Co., S. M. Fecheimer, expanded into an enlarged organization to be known as Fecheimer, Frank and Spedden, Inc., with offices at 415 Brainard St., Detroit, Mich., on the fourth floor of the Architects Bldg. All members of the new organization are well known in their particular branches of the advertising field; Sidney M. Fecheimer, as an authority on industrial, building and technical copy; Emanuel G. Frank, for his creative copy; Roland G. Spedden, in retail advertising.

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More than 6,000,000 copies of The Saturday Evening Post

have carried full page advertisements of the Triple Insulated Home

MILLIONS of magazine readers now know—millions more will soon be told—of the comfort, economy, beauty, and fire-safety of the Triple Insulated Home. This is part of the epoch-making Johns-Manville plan which enables every builder to utilize the tremendous selling force of national advertising to speed the sale of houses in his town.

Hundreds of home-seekers have already asked for particulars. They are live prospects for builders in their localities. They will be glad to see the "Trade Mark" of a Triple Insulated Home, for they value the beauty and permanence of its asbestos shingle roof, the comfort and economy of its Housline building felt, and the fuel saving of its Asbestocel heating system insulation. These inquiries are turned over to builders. Triple Insulated Homes that have been built have sold rapidly.



This "trade-mark" built into the cellar wall identifies a Triple Insulated Home.

The Triple Insulated Home can be built by any builder. It can be of almost any type of construction that the builder prefers. However built, it will be a more comfortable, beautiful, economical and safer house.

It will carry the prestige of a better product, the prestige of the Johns-Manville reputation and the prestige of nationally advertised and trade-marked commodities. It will be much easier to sell.

Full details of this marketing plan on request.

The Triple Insulated Home

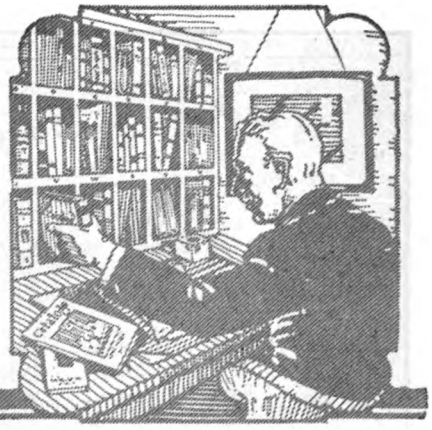
A Johns-Manville idea

JOHNS-MANVILLE Inc., 292 Madison Ave. at 41st St., New York City

Branches in 63 Large Cities. For Canada: CANADIAN JOHNS-MANVILLE CO., LTD., Toronto

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USEFUL CATALOGS



Motor Trucks have taken their place as an integral part of every up-to-date builder's equipment and prove their value in time and labor saved. A study of the catalog of the General Motors Truck Co., Pontiac, Mich., will prove very interesting to every builder.

Warm Air Heating is accomplished with greater efficiency when the registers have a free air capacity. Floor and baseboard registers may be obtained that allow for the maximum. Literature concerning them is published by the Hart & Cooley Co., Inc., New Britain, Conn.

Convenience Outlets and various types of electric switches of distinctive design are illustrated and described in several pamphlets issued by Hart & Hegeman Mfg. Co., Hartford, Conn.

Standardized Woodwork reduces production costs to a minimum and gives the builder unusual value besides expediting his planning. A description of entrances, stairways and built-in conveniences of distinction, together with interior millwork and finish, is described in a booklet issued by the Morgan Sash and Door Co., Chicago, Ill., entitled "Building With Assurance."

Metal Roofing Shingles make a lasting and attractive roof. A large book showing styles of shingles, homes in which they are used, prices and specifications, is furnished those interested by the National Sheet Metal Roofing Co., 339 Grand St., Jersey City, N. J.

Porch Enclosures may add the necessary feature that convinces the prospective home owner. An interesting folder describing Malia Porch enclosures and metal weatherstrips is being distributed by Thomas J. Malia, 226 W. Mentor St., Philadelphia, Pa.

Frigidaire installations relieve the home owner of the expense of icing the refrigerator. A new catalog showing buildings and testimonial letters pertaining to apartment refrigerating systems has just been issued by the Delco-Light Co., Dayton, Ohio.

Wire Glass has found an important place in both domestic and industrial usage. The various forms and designs in which it may be obtained is taken up in a comprehensive manner in the new literature of the Mississippi Wire Glass Co., 220 Fifth Avenue, New York

Woodworking Machines form an essential part of the well equipped builder's shop. Devices that may be run from an electric lamp socket are taken up in detail in the literature of the Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.

Lumber and Millwork should be fully represented in the literature of every builder's library. Details concerning lumber are taken up fully in a series of folders issued by the A. T. Stearns Lumber Co., Neponset, Boston, Mass.

BUSY as the contractor may be, he must not neglect to follow developments in his field. Today, manufacturers are making it easy for him to do this—they are consolidating, in concise form, information on new equipment and materials. Use these pages in connection with the Selected List of Manufacturers' Literature; then write to the firms direct or to this department of BUILDING AGE AND NATIONAL BUILDER, *239 West 39th Street, New York City.*

Casement Windows offer to create salability features not to be overlooked by the builder. Information on casement windows will enable the builder to talk intelligently concerning them with the prospective home owner. A catalog describing this product may be had from the Crittal Casement Window Co., Detroit, Mich.

Concrete Construction has been given a great impetus through the use of practical construction unit suitable to the framework of any type of building. It includes strength and convenience features well worth considering. An illustrative booklet describing Duntile may be obtained from W. E. Dunn Mfg. Co., Holland, Mich.

Slate Roofs artistically laid lend a picturesque appearance to many types of homes. In addition to enhancing the charm of the house they are unusually lasting. The J. D. Emack Co., 15 East 49th Street, New York City, are distributing a particularly attractive catalog entitled "Olde Stonesfield Roofs."

Wire Cloth is in big demand for summer construction work and for winter shop work as well. Every builder should have information on hand concerning the various types. A book of samples can be had from the American Wire Fabrics Co., 208 So. La Salle St., Chicago, Ill.

Cement Paint may be had that combines waterproofing qualities as well as being decorative. Descriptive matter concerning Mastertex Cement Paint explains its composition and use in the literature as published by the Master Builders Co., Cleveland, Ohio.

Hardware for sliding and folding doors have seen a great many new developments. Photographs and line drawings showing in detail the various features are included in Catalog No. 24 of the McCabe Hanger Mfg. Co., 425 West 25th St., New York City.

Machine Saws for lock corners or for grooving, or for that matter, any form of intricate cutting, are a valuable appliance in the shop. Information regarding patented devices of simple design is obtainable from the Huther Bros. Mfg. Co., Rochester, N. Y.

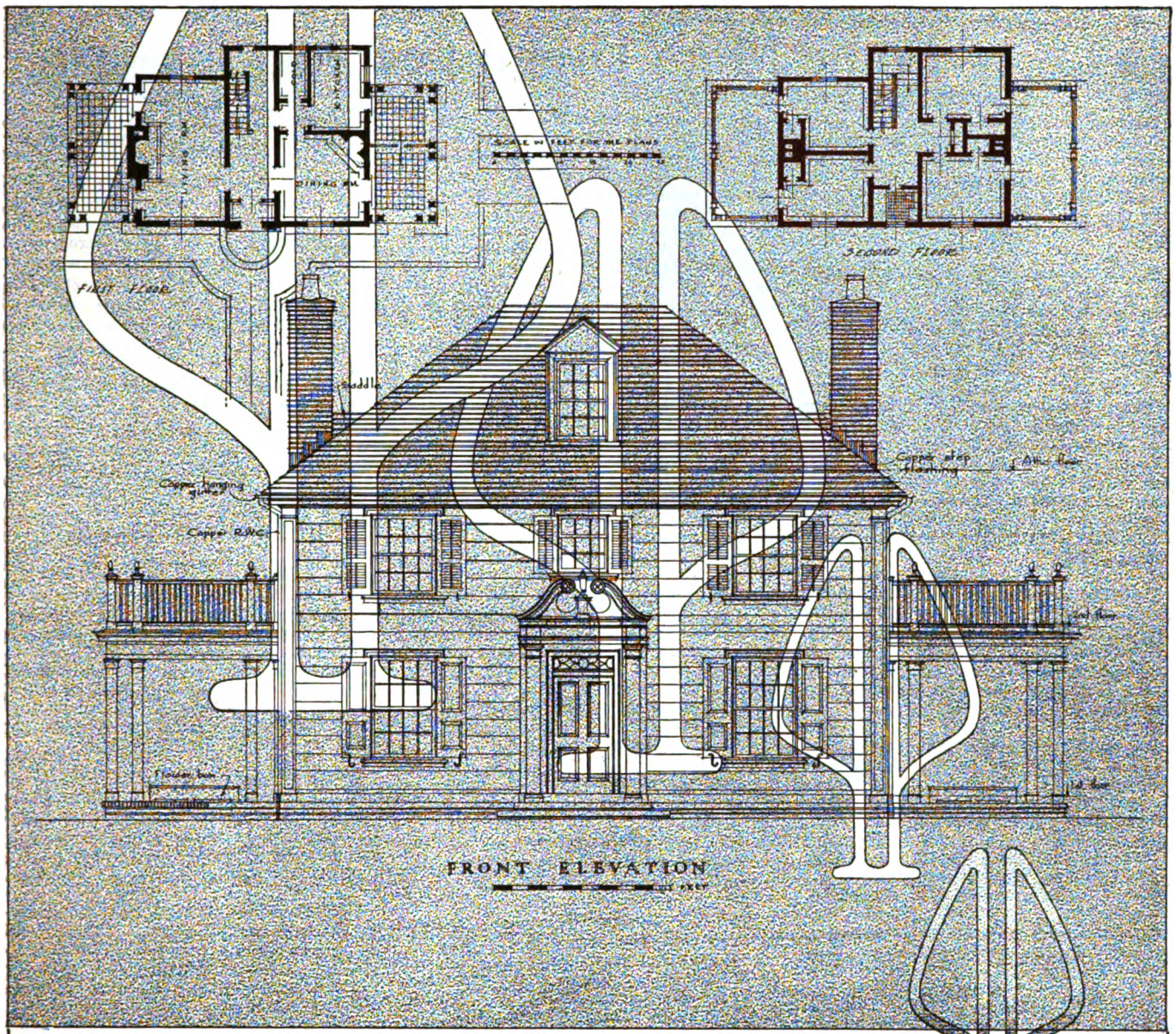
Engines that are reliable under heavy, steady loads and are easily started at all times are manufactured by the Hercules Corp., Evansville, Ind. They publish interesting matter concerning their product that may be had upon request.

Metal Weatherstrips can be installed in either new buildings under construction or in the old buildings. Both types require this modern form of protection. A metal weatherstrip to fit any door or window is described by the Ceco Metal Weatherstrip Co., 140 South Dearborn St., Chicago, Ill.

Domestic Gas Appliances represent to the speculative builders some of his most valuable sales instruments. The prospective home owner is always interested in new developments along this line and the builder should keep himself informed. A new well arranged catalog such as the one published by the Standard Gas Equipment Corp., 18 East 41th St., New York City, will help materially.

Radiators so designed that they hang from the wall and provide clear floor space are outlined in the Detail Sheets published by C. C. Shipp & Co., Indianapolis, Ind.

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Great wood to work with

That's what builders say about Pondosa Pine, grown in the Inland Empire of the Great Northwest. They mean the way it cuts, the finish it takes, the way it takes nails in short grain without splitting or pulling through, the way it paints up. Every trade-marked stick is rigidly *graded*, thoroughly *seasoned* and carefully *milled*. The supply is dependable. For sale by all good lumber yards. Write for free copy of "Bingo of Flathead," a dog's story of Pondosa Pine. Address Dept. 23, Western Pine Manufacturers' Association of Portland, Oregon.

Pondosa Pine

The Pick o'the Pines



Write for this booklet.

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Some More Useful Catologs

Heating Equipment is taken up in an extremely interesting manner in a booklet entitled "Healthful Heat" sent out by Giblin & Company, Utica, N. Y. A second catalog "Heating Apparatus," goes into the heating question in further detail.

Sheathing and Roofing Brackets that are quickly set into place and fold up conveniently are described in a catalog by the Ajax Building Bracket Co., 1551 Rydal Mount Rd., Cleveland Heights, Ohio.

Metal Weatherstrips easily adaptable to double hung casement windows and door thresholds, with self adjusting automatic door bottoms to keep out dust, dirt and rain are valuable building products. Illustrative literature describing them many be obtained from the Allmetal Weatherstrip Co., 229 W. Illinois St., Chicago, Ill.

Drawing Instruments and Surveying Tools should be part of every builder's equipment. An illustrative booklet entitled "Be a Bigger Builder," lists and describes several types of instruments and is issued by the A. S. Aloe Co., 62 Olive St., St. Louis, Mo.

Epansion Bolts give the builder greater freedom of construction. Information on this handy device is obtainable for fastening to masonry from the Diamond Expansion Bolt Co., 90 West St., New York.

Heating Equipment plays an important part in influencing the prospective home owner. The builder should be acquainted with various types of furnaces and ranges. Literature on warm air heaters is published by the Graff Furnace Co., New York City.

Asphalt Shingles may now be obtained in such form that they are self spacing. Descriptive matter on the new **Ingels-Shingle** designed to give a closely knit and firmly anchored surface is circulated by the Weaver-Wall Co., Brooks Park and State Roads, Cleveland, Ohio.

Hydrated Lime increases workability, density and water-proofing qualities. It is now included in the specifications of many big building projects. "The Moving Finger Writes" is the title of a book dealing with this phase of building work, issued by the National Lime Association, 844 Rush St., Chicago.

Wrought Iron Ornaments may be worked into the house design so that they add a true decorative effect. A comprehensive list, including illustrations and descriptive matter, is contained in the new booklet of the Florentine Craftsmen, 253 Church St., New York City.

Waterproofing and water proof cements are included in the specifications of good construction jobs. The various qualities of Medusa Waterproof cement are described in a new booklet of the Sandusky Cement Co., Sandusky, Ohio.

Waterproofing Materials may now be obtained in such form as to enable the builder to effect better construction and decorative results as well. A new book has just been issued containing complete specifications on waterproofing concrete and cement stucco, brick, masonry, in addition to oil-proofing and quick-set for concrete. It is known as Specification Book "A" and is obtainable from the Truscon Laboratories, Detroit, Mich.

Metal Lath provides an excellent base for good plastering. Information regarding this material is contained in convenient form in three new booklets of the Associated Metal Lath Manufacturers, Inc., 123 W. Madison St., Chicago.

Built-In Kitchen Units aid the builder in that they save time in planning, save labor and floor space. Practical advice on these convenience features is distributed by McDougall Co., Frankfort, Ind.

Woodworking Machinery of good servicable construction saves time and money for the builder. Complete information regarding the various types of machines should be in every contractor's library. An excellent series of informative folders may be had from Parks Ball Bearing Machine Co., 1540 Knowlton St., Cincinnati, Ohio.

Steel Work for buildings such as trusses for garages and factories, steel sash skylights, etc., is described in the descriptive catalog published by the International Steel & Iron Co., Dept. 19, Evansville, Ind.

Redwood Lumber possesses remarkable rot resistive properties. It is an economical and lasting material for use on the exterior and interior of houses. To acquaint builders with the special fitness of redwood for building construction purposes, the Pacific Lumber Co., 932 Pershing Square Bldg., New York City, will send on request a booklet entitled "Construction Digest."

Steel Clamps for builders' use need be well made as they are subject to hard usage. An illustrative catalog describing different styles is being distributed by the James L. Taylor Mfg. Co., Poughkeepsie, N. Y.

Weatherstrips have come into their own in building work today; houses everywhere are being equipped throughout. Interested parties may obtain blue print details and instructions on installations from the Diamond Metal Weatherstrip Co., 412 Spruce St., Columbus, O.

Rubber Tile Flooring for the sun porch, bath room or kitchen produces attractive effects in the home. This type of flooring is equally desirable for restaurant, store, offices and public buildings. A book of specifications and illustrative data has been published by the Wright Rubber Products Co., Racine, Wis.

Fire Prevention is the subject of an excellent article entitled, "Do We Build to Burn?" prepared by Virgil G. Marani, C. E., Mem. Am. Soc. C. E., for the benefit of builders. The work is directed primarily at homes of moderate cost; including, also, data on larger structures. The importance played by gypsum products is brought out in this connection in a striking and informative manner Copies are free and obtainable from The Gypsum Industries, 844 Rush St., Chicago.

Contractors' Equipment of the latest type places the builder on an enviable competitive basis. In the builder's files should be included information on such equipment as mixers, scrapers, hoists, block machines, etc. An interesting catalog, "Lansing Equipment for Contractors," is published by Lansing Co., Lansing, Mich.

Door Holders and checks and casement adjusters enable the builder to outfit the home in the most up-to-date manner. As a sales feature, good door and window hardware is very important. A concise resume of one company's line is taken in catalog No. 14 of the Superior Spring Hinge Co., 548 W. Lake Street, Chicago, Ill.

Lanterns present an artistic way of setting off the entrance of the English Cottage that is now so much in vogue. An interesting folder of good designs at moderate prices is issued by Friedly-Voshart Co., 733 So. Halsted St., Chicago.

Partitions and ceilings that are easily installed and decorated, enable the builder to speed up on the work of completing exterior finish. The Simplex System is a patented method of erecting fire and sound-proof ceilings of plaster boards and steel studs. An interesting catalog is being sent out on this by the Simplex Steel Products Co., 1146 Roscoe St., Chicago, Ill.

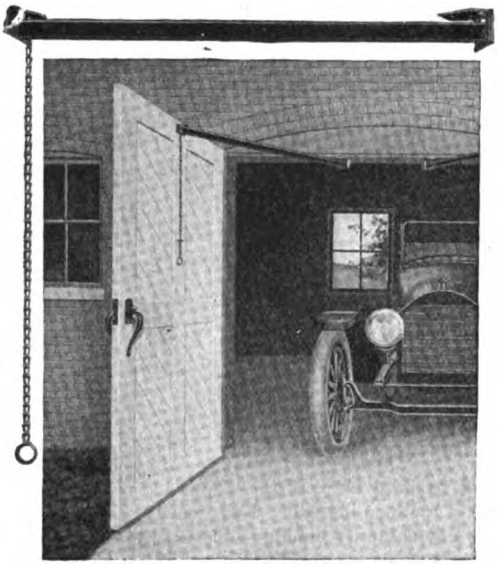
Fans and Blowers built into the home are good sales features as every speculative builder knows. A hand book that will prove interesting to everyone connected with the heating and ventilating field is being prepared in revised form by the Buffalo Forge Co., 490 Broadway, Buffalo, N. Y.

Joist Hangers fabricated and ready for installation save the builder time and represent good building practice. Details on joist hangers, strap tie anchors, truss rods, wheel guards, window guards and coal chutes are presented in practical form in Catalog No. 10 of the Mulvey Iron Works, 1940 Carroll Ave., Chicago.

Drafting Instruments and drafting room equipment are a necessary adjunct to the builders office. Full details on various materials in this line are taken up in several catalogs, M23, D25, F24, issued by the C. F. Pease Co., 852 N. Franklin St., Chicago.

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NATIONAL No. 810 GARAGE Door Holder



A Holder that locks Doors Open

No danger of hinges swinging back against cars if the garage doors are equipped with NATIONAL NO. 810 Garage Door Holder.

When door opens, the rigid steel arm slides through embossed steel catch plate and locks firmly in place.

To close door, an easy pull on the safety chain operates trip bar and releases holder—the swivel arm folding back along the head jamb.

Easily installed, the NATIONAL No. 810 garage door holder gives lasting satisfaction to owner and builds good will for the builder.

Heavy-gauge steel construction assures the maximum strength for any doors. Packed 1 pair in a package, complete with screws in Japan, Dead Black Japan, Sherardized, and Sherardized and Dead Black Japan.

Send for Illustrated Catalog of Garage Hardware

NATIONAL MANUFACTURING COMPANY

STERLING ILLINOIS

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Kinks from the Job and Office

Underground Passageway to Fruit-Cellar

HERE is an underground passageway leading from the basement of the house to a fruit-cellar shown by the accompanying illustrations. The object of this arrangement is to protect potatoes, apples, pumpkins, squash and many other vegetables and fruits from the effects of the heat that escapes from the furnace. While this arrangement is not altogether practical in cities, it is, nevertheless, desirable for farmers or fruit growers who want to hold over some of their products for a winter market. The market, though, is not the only consideration; fruits and vegetables stored in this way for private consumption will keep longer and better than if kept in the basement with a furnace.

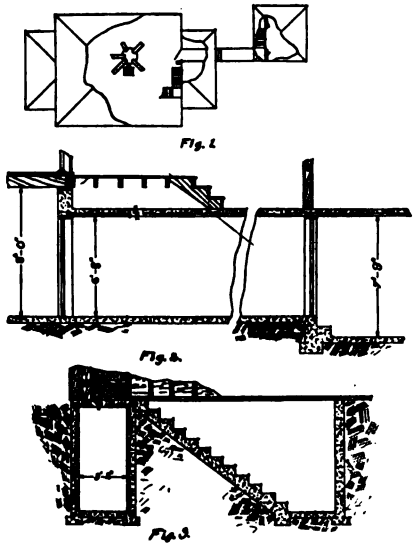
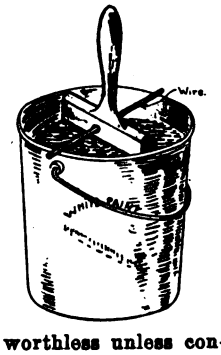


Fig. 1 shows a minature sketch of the lay-out. The fruit-cellar has a milk-separator room over it and at butchering times the room is used for rendering lard, making sausage and cutting meat. The fruit canning is also done in this room and many other things ordinarily done in the kitchen are taken to this room for treatment. The passageway makes it possible to go to and from the fruit-cellar in stormy weather without exposing oneself.

It will be noticed, by referring to the sketch, that the top of the passageway is finished, and is used for a walk between the house and the separator room. The sides and top of the passageway are made of reinforced concrete. Woven wire fencing is used for reinforcing the side-walls and the top. This is indicated by the irregular lines in Figs. 2 and 3. The former shows a longitudinal section, cutting it through the underground passageway; and the latter shows a cross section, cutting it through the underground and outside entrances to the fruit-cellar. —H. H. Siegele.

Preserving Paint Brushes



A PAINT brush does not have to stand very long in a pail of paint before the bristles are bent over, making it rather hard to get them straightened out again. If they are left exposed to the air as when laid upon a flat surface, they dry out and are practically worthless unless considerable time is spent in washing them out.

A good way to preserve paint brushes is to bore holes through the shank as shown in the sketch, and support them on the edge of the can by running a wire through. If the brush is being used for several days, this method will hold the brush in the paint off the bottom and will be ready for use in the morning. If when the painting job is finished, an empty can is filled with linseed oil and one or several brushes hung in it in this way; the bristles will be kept soft indefinitely.—D. R. Van Horn.

Hanging Two Sash On One Weight

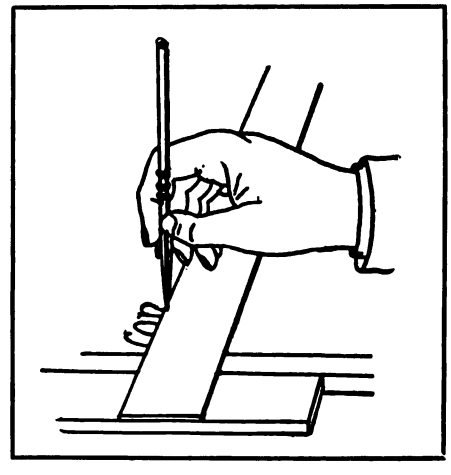
THIS is not a new kink but it is not generally known by carpenters: Attach a small awning pulley to a weight of double size. (See Fig. 1.) A 4½" casing may be used, making the wider mullion and pendulum strip unnecessary. I always use this method, and it is an advantage when the extra space required for the window frame is needed. Likewise, the two sash may be operated with one weight in the outer box if desired. —A. N. Phillips.

A Lettering Kink

THE accompanying illustrations show a very rapid and neat method of lettering plans, especially valuable for use on detail sheets.

This style of lettering was used by the Architect's Office, Department of Public Instruction, Sydney, Australia, when the writer was employed there as a draftsman and has the advantage that guide lines for the letters are unnecessary.

Simply hold the drawing pen as for ruling using the T square or a set square as a guide and make the letters free hand as shown in the illustrations. The tails of the letters such as y, g, etc. are made after the line of lettering is complete.

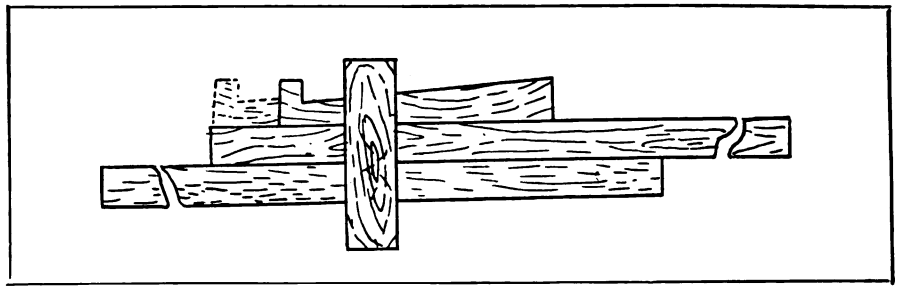


Heavy or light letters can be made at will simply by adjusting the blades of the drawing pen. A little practice will show the advantage of this method.—G. A. Whiffen.

Measuring Rod

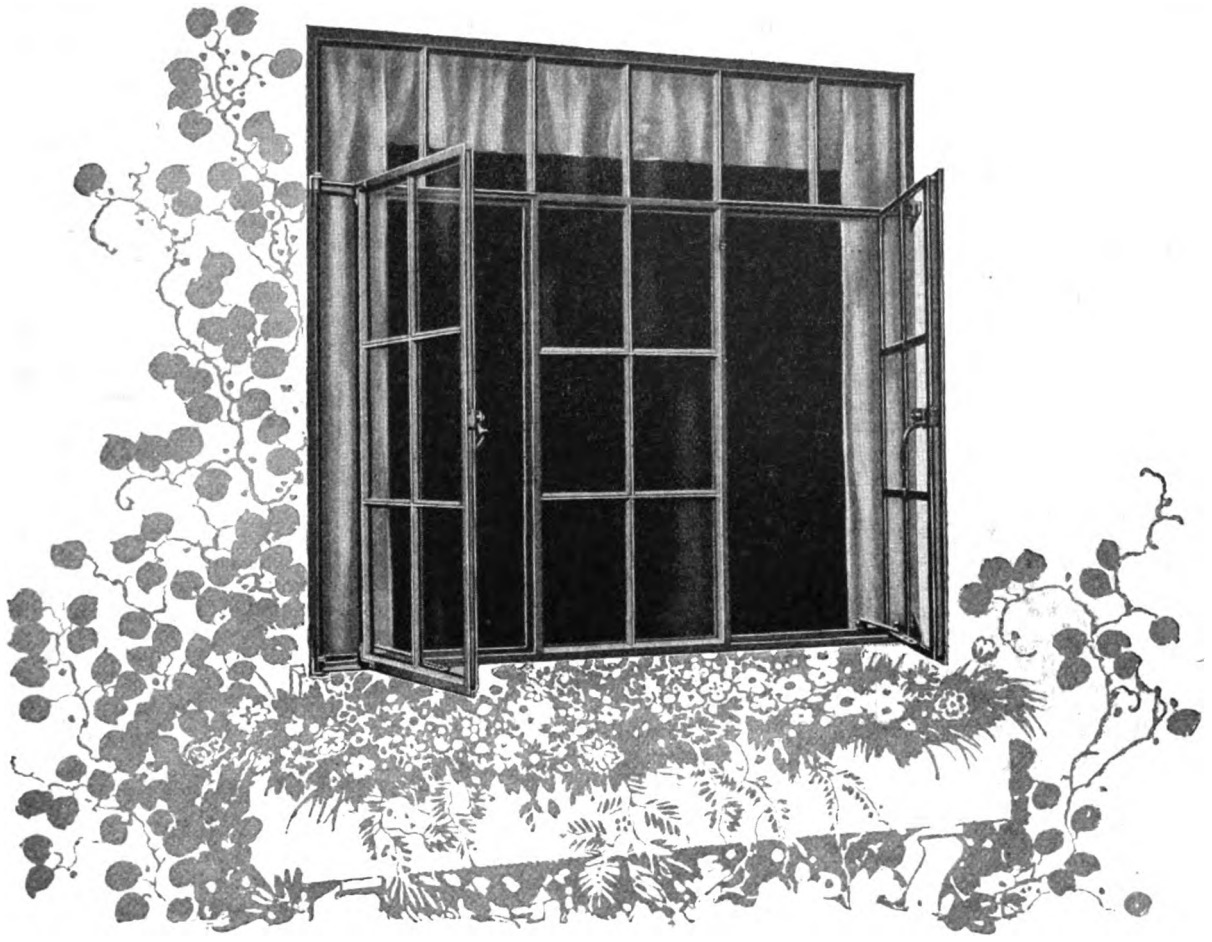
A VERY handy, adjustable measuring rod can be made of two pieces of window partings stop, a piece of 1"x2" 3½" or 4" long, and a key wedge.

Mortise a ⅝"x1⅞" hole in the piece of 1"x3"; put key wedge in first and then slide other pieces in.—B. E. Parker.



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Fenestra Casement Windows



"Something Better That Costs No More"

At practically the same price you pay for wood windows you can get the beautiful new Fenestra Steel Casements—the latest improvement that is captivating home builders and home buyers.

Women are particularly interested in the artistic, cozy appearance of these new windows; men are impressed by their many practical advantages; and contractors find they get their money quicker because the houses are enclosed almost as soon as the roofs are on.

Here's a real development in home building that pleases everybody. "Something better that costs no more."

Isn't this a good time to try Fenestra—on your next job? You can have the casements delivered by your local dealer along with the Fenestra basement and garage windows and other building material. Let us send you complete details.

DETROIT STEEL PRODUCTS COMPANY, A-2252 E. Grand Boulevard, Detroit, Mich.
***Factories in* Detroit, Mich., Oakland, Calif., and Toronto, Ont., Canada.**
***For Canada:* Canadian Metal Window & Steel Products Ltd., 160 River Street, Toronto, Ont.**

Fenestra

for homes, large and small
shops and small factories
garages and service stations
stores and other buildings

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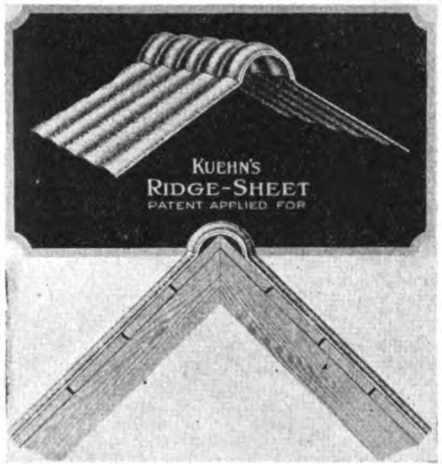
WHAT'S NEW



New Materials and Equipment that Keep Your Work Up to Date

Combined Roofing Sheet and Ridge Roll

A PRACTICAL invention for the use of sheet metal roofers—one that combines in one piece ridge roll and roofing sheet—has just been placed on the



market by the Milwaukee Corrugating Co., Milwaukee, Wis. The illustration shows just how the two pieces have been combined and at a cost only slightly over regular corrugated sheets.

The advantages include the elimination of the expense of separate ridge roll and cost of laying same. The new product is, moreover, storm-proof and designed to give a better appearance to the roof.

It is furnished in 1¼ and 2½ inch corrugations, in any length, galvanized or painted, in standard gauge and Nos. 28, 27, 26 and 24 gauge.

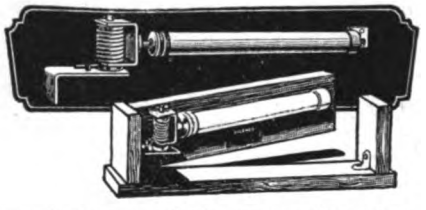
Colors and Hardens Concrete Floors

A COLORED integral hardener recently developed by the Toch Bros., Inc., 110 E. 42d st., New York, N. Y., combines the advantage of a coloring material with a hardening medium and also possesses waterproof properties. R. I. W. hardener is furnished in terra cotta, red, brown, willow green, sea green, dark slate and other alkali proof shades.

Although not designed especially for dust-proofing concrete floors, R. I. W. colored integral hardener combines the wearing qualities of such floors by reason of its hardness and densifying action. The product does not affect the tensile or compressive strength of the cement topping and may be used to advantage wherever hard top concrete floors are desirable. The product is provided builders in paste form and in several shades to order.

New Screen Door Check

A SCREEN door check of unique design and economical construction has recently been introduced by the Frank Rose Mfg. Co., of Hastings, Neb.



manufacturers of the Rose tire pump. The same performance found in more elaborate checks for heavy doors has been duplicated in this low priced model.

The illustration serves to show how the method of operation parallels the familiar door check used on massive, solid doors. The Rose door check closer is finished in gold Duco.

The Case of Zinc-Coated vs. Black Nails

THE illustration does not at first seem to fit very accurately with "What's New" material; it is reproduction from a page in a 1910 edition of BUILDING AGE. At that time black nails for roofing work were causing builders a great deal of trouble as the article explains. The contrast between builder's equipment fifteen years ago and to-day is thus brought out very forcibly.

The Miller & Gleason Co., of Olean, N. Y., who brought this article to our attention, have a product very representative of this phase of roofing improvement. Their zinc-coated nails supply a need first recognized when black nails went out as unsatisfactory roofing materials.

The zinc-coated nail, now used almost entirely for shingling, provides wearing, weatherproof qualities far beyond the expectations of roofers in 1910.

THE PASSING OF BLACK NAILS FOR EXPOSED WORK

By A. READER.



THERE is a great deal of complaint regarding the trouble that comes from the use of ordinary black nails in exposed work, particularly in shingle and slate roofs and, to a lesser extent, for clapboarding, laying veranda floors, etc. The matter has not only been referred to editorially at considerable length in publications devoted to the building interests, but many of the leading publications devoted to the farming interests have printed communications from their readers relative to the matter and have also referred to it editorially, making the evidence conclusive that the dissatisfaction regarding the short life of the ordinary black nail for exposed work is well founded and that owners of frame buildi... to a fact ...

term "galvanized" means nothing definite, so far as durability is concerned. For several years lead-coated nails passed as "galvanized" and do to this day in some localities. A coating of lead applied to a nail affords little, if any, protection; neither does a coating of electro galvanizing. This is also true in the matter of nails thinly coated with zinc by a mechanical process, as many of them are.

It seems to be the general opinion of those who have watched results carefully and long enough to form intelligent opinion, that a coating of not less than ... lb. of pure zinc to the 100 lb. of nails is the only thing that can be relied on absolutely. Nails of this character have been used along the sea-coast for more than 30 years, particularly in New ... writer has in his possession some ... zinc-coated iron cut nails that were ... as many buildings, for more than ... in as perfect a state of preservation as when they were driven, ... cases that ...

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Residence of Mr. Walter Olin, Dean Road, Indianapolis, Ind.
F. B. Hunger, Architect.
Brandt Bros. Construction Co., Contractors.



Flax-li-num is made solely of flax—for the toughness and everlasting qualities of pure linen fibres; felted into semi-rigid sheets—for rope-like strength and flexibility; and made one-half inch thick for walls and one inch for roofs—to give the protection against heat and cold that fifteen years of laboratory and field work has proven necessary.

Flax-li-num—

the hidden comfort that makes good friends

WHETHER you build on contract or for quick resale you will be vitally interested in the Flax-li-num story. For Flax-li-num makes friends wherever used.

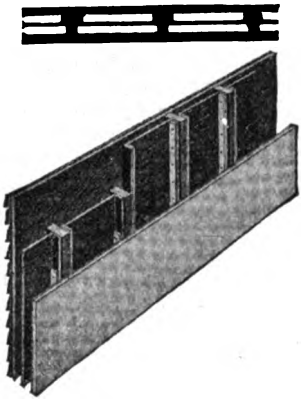
Flax-li-num is the building material of flax felt that lines outside walls and top story ceilings to keep in the costly heat of furnace fire in the winter. And in summer it stops the entrance of the sun's heat through the walls and roof.

Flax-li-num controls the temperature at any time of the year. It is the same scientific felted fibre sheets that line many standard makes of household refrigerators—the same material that lines 90% of all railroad refrigerator cars built in recent years.

For fifteen years Flax-li-num has been used in the building trade with satisfactory results. The Home owner likes Flax-li-num because it brings him greater comfort the year around, with real economy in heating costs. The Builder who uses Flax-li-num knows he is giving the future owner a real value. The Home owner *knows* Flax-li-num as the standard house Insulation, as widespread advertising sees to that.

Samples and specifications will be sent to any interested Builder, Contractor or Realtor. Now ready, also, the new handbook on Insulation, "Heat Insulation for Houses," prepared for Architects and Builders. Write for it.

THE FLAX-LI-NUM INSULATING COMPANY
SAINT PAUL, MINNESOTA



Easy to handle and install without cracking, breaking, crumbling or warping. Makes air tight joints around all the uneven and irregular places in house construction.



One-half inch of Flax-li-num in outside walls and one inch in the top story ceiling keeps the heat inside from saturating the walls and ceiling and being lost into the outside air. In summer Flax-li-num prevents the rays of the sun from saturating the roof and making the upper floor rooms hot and unlivable. The Flax-li-num lined house requires less radiation and a smaller boiler. It burns several tons less fuel each winter.

Flax-li-num

THE MARK OF THE WELL BUILT HOUSE



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What's New in Materials and Equipment

Time Saving Tacker

TO meet the demands of builders who are making a specialty of manufacturing screens, the J. B. Crofoot Co., P. O. Box 783, Chicago, are offering a new screen tacker capable of driving 77 staples in one loading.



Among its unique features is that of equipment of replaceable hardened steel claws fastened by means of a screw on both sides of tacker, the claws being provided with two small steel teeth each. These enable the operator to draw the screen into position without the use of pliers and at the same time drive a staple by striking tacker plunger. When these claws are not required they may be readily removed.

Reloading when the staples have been used up requires approximately three seconds. Staples are joined together in one strip and the possibility of one staple over-riding another is eliminated. Crofoot staples come packed in boxes of 10,000 each, laid in layers for convenient use.

Serviceable Electric Polisher

A SMALL, easily handled efficient machine for waxing floors is included in the latest service offered by S. C. Johnson & Son, Racine, Wis., manufacturers of the well known Johnson's Wax.



In the new machine a decided change has been made in that the polishing is done by two cylindrical brushes mounted horizontally and revolving in opposite directions 2,000 r. p. m. The machine rides on a stationary spring-mounted brush to take care of inequalities

An additional feature of the machine lies in its revolving brushes acting also as a sweeper, depositing dust and dirt in removable dust pan in the center, very much as a carpet sweeper collects dirt.

The Johnson Machine is a service proposition, available at Johnson branches and stores to users of Johnson Wax.

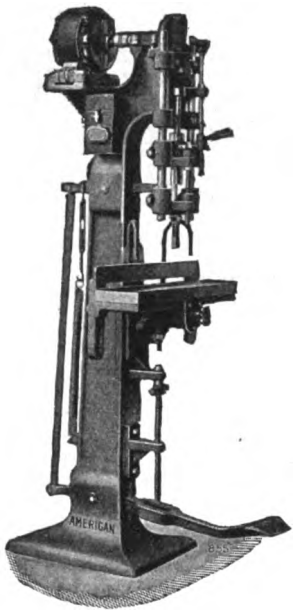
Flush Valve

KEEPING step with the developments made in the plumbing field, an up-to-date flush valve, designed to do away with all former difficulties, is now being offered for installation. It is the Curtin Flush Valve, manufactured by A. F. Curtin Valve Co., Medford, Mass.

Its features lie in an unrestricted waterway and in immediate syphon action. For this reason, it will operate the largest closet with a minimum amount of water. A flat, non-leakage leather washer seat is incorporated in the design, necessitating only a slight touch of lever to lift valve. Operation is unusually silent.

New Hollow Chisel Mortiser

BY way of providing the wood worker with a compact, rigid machine, the American Saw Mill Machinery Company, 61 Main St., Hackettstown, N. J., are manufacturing a vertical hollow chisel mortiser designed for efficient, durable operation. As is shown, the spindle is driven by ½ H. P. Electric Motor or if preferred, a pulley is included in the equipment for belt drive.



The frame is cast in one piece and is provided with a base of ample dimensions for the purpose of insuring a firm support. Maximum production is obtained with ½ inch or smaller chisel and ¾ inch or smaller boring bits. These operations may be performed very effectively in hard, dry wood.

The specifications include, briefly: 70 in. height; 24"x40" floor space required; table 2'x6'; vertical travel of chisel 3¾"; speed of spindle, 2400 R. P. M.; weight with motor, 500 lbs. one ⅜" chisel with bit; two bit bushings and two chisel bushings are furnished with each machine.

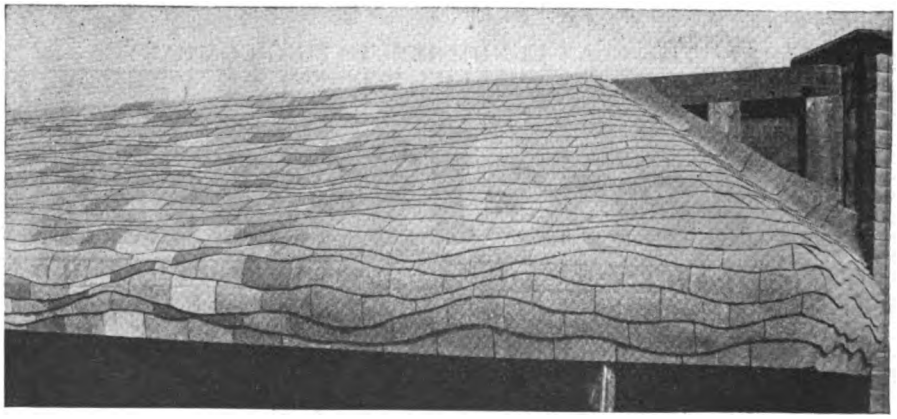
Two New Shingles

NEW developments in roof materials are announced by B. F. Nelson Mfg. Co., Minneapolis, Minn. To appeal primarily to architect and builder who favor irregularity of roof, the Nelson Master Slab Thatch Shingle and the Nelson Master Slab Shake Shingle have been introduced.

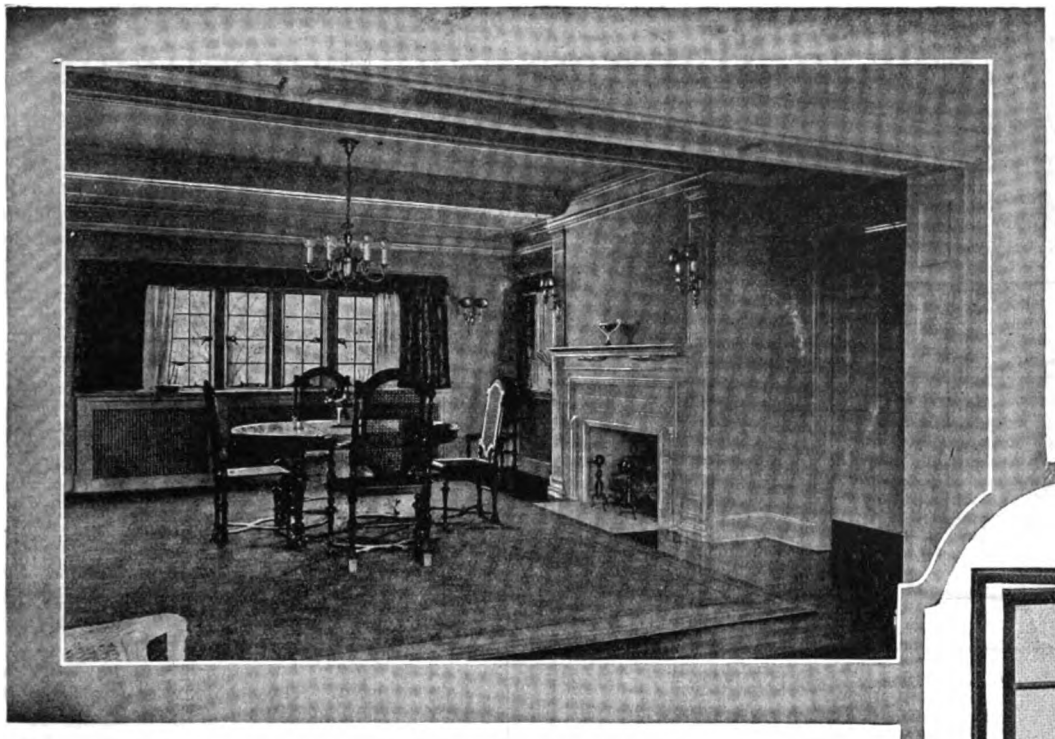
The thatch shingle is an 8½ x 12¾" individual type with curved upper and lower edge, the upper and lower lines being parallel, making the shingle reversible. The lower edge is concave and the upper convex, so by reversing, it gives the exposed edge a line resembling very closely the lines formed by thatched straw where edges are cut and trimmed on the roof, as in rural parts of Europe.

Nelson Master Slab Shake Shingles are rectangular, of different widths, which can be laid irrespective of the horizontal chalk lines across the room, thus giving a variety, a change from the ordinary asphalt shingle. The effect resembles that of the staggered wooden shingle.

The same fire-preventive qualities that make other Nelson shingles so desirable are also found in these asphalt ones.



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CRITTALL

Standard Steel Casements Provide Warm, Comfortable Interiors;

No Weatherstripping Required

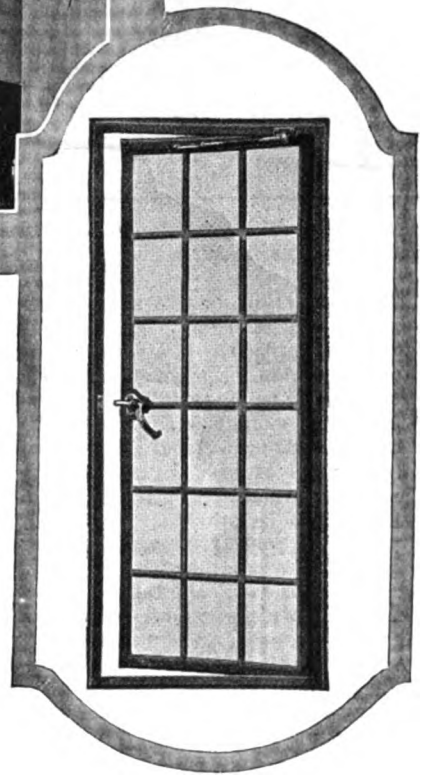
The guaranteed weather-proof qualities of Crittall Standard Steel Casements are an important asset to the builder who values customer satisfaction.

Built by hand to exacting limits, of the finest materials procurable, Crittall Casements require no weatherstripping, thus ensuring comfort at all seasons of the year. They effectually prevent entrance of rain, sleet and snow.

In appearance and workmanship, these casements measure up to the highest Crittall standards. Hardware is of solid bronze. Handle plates are securely welded to casement sections. Corners of both sash and frame are electrically welded.

Where complete installations are unnecessary, builders may use Crittall Standard Steel Casements for the salient features of the home, such as the sun room, library or wherever an artistic effect is desired.

Write for folder giving sizes and types.



Crittall Standard Steel Casements are made of Crittalloy—the Copper-Bearing Steel

Crittall Cottage Casements

Are standard in size and design and low in cost for use in smaller residences, apartment houses, etc. They have the usual advantages of steel over wood in that they can be operated easily under varying weather conditions. Made to open out only. Ask for literature, giving types and sizes.

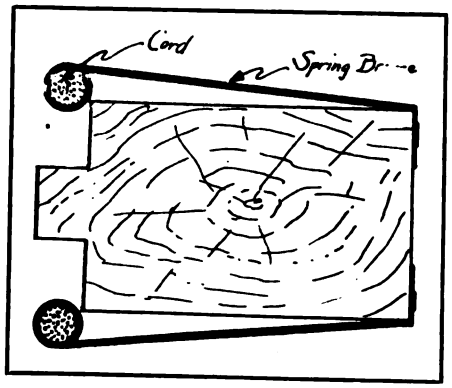
CRITTALL CASEMENT WINDOW COMPANY, *Manufacturers*
10957 Hearn Avenue, Detroit, Michigan

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What's New in Materials and Equipment

New Type of Weatherstrip

THE A B C parting bead, the latest product of the Hoffbauer Co., 101 Park Avenue, New York City, bids fair



to be the most successful development that these manufacturers have yet produced.

The installation as shown by the cut is simply a parting strip faced on two sides with corded A B C bronze. The whole takes the place of the ordinary parting bead and its installation is made with unusual simplicity.

As soon as it is installed the expansion and shrinkage of sash are taken care of. The builder, when putting it in place, fits it in the groove provided for the ordinary type of parting strip. In addition to providing a weatherstrip of unusual efficiency, it is seen that this new development insures continuous contact with the window.

Another feature is found in the absence of interference with sash lock. Parting bead and weatherstrip are in one piece and operation of the sash is not changed in the least.

It may truthfully be called the weatherstrip that "needs no installation." Parting bead must be installed for double hung sash and the A B C parting strip involves no additional difficulty.

Installations of the A B C parting bead have already been made with good success. The company will continue to manufacture their corner type of weatherstrip for all uses. The new development was designed primarily for installation in new buildings while operations are going on.

Sash Sustainer

A DEVICE that has attracted widespread interest among builders and owners has recently been introduced by the Austral Window Co., 101 Park Ave., New York City. Its practicability is found in its efficient, light construction making it a handy substitute for weights, cords and pulleys.



As the illustration will show, the device consists of a tempered flat steel spring with a stamped metal case welded to the free end. The case contains a cold rolled steel roller ½ in. wide and ¾ in. in diameter, revolving on a bronze pin, a portion of the roller being exposed. A second and much smaller corrugated roller is so confined in the case that when the device is in operation in an upward movement, it does not engage the two rollers. However, when the action is reversed the small corrugated roller is forced between the inside wall of the metal case and the large roller. The friction thus produced is sufficient to hold the sash in any position while a slight pressure is all that is needed to lower it.

New Stair Tread

FLAT or grooved type metal tread to be installed in door sills, steps, elevator entrances, etc., have been put on the market by the Universal Safety Tread Company, 40 Court Street, Boston, Mass. It has a lead base tread with innumerable abrasive grains of "diamond" hardness and practically wearproof. The whole is strengthened by a tinned-steel backing to make it rigid. Because of the lead base a brace of grains are constantly being presented uppermost to halt slipping feet. Climatic conditions have no effect whatsoever in making the stair treads wet or slippery.

Handy Partition Units

A new type of partition that provides large construction units easily built up and made ready for decoration without the use of plaster or mortar has recently been introduced to the trade.

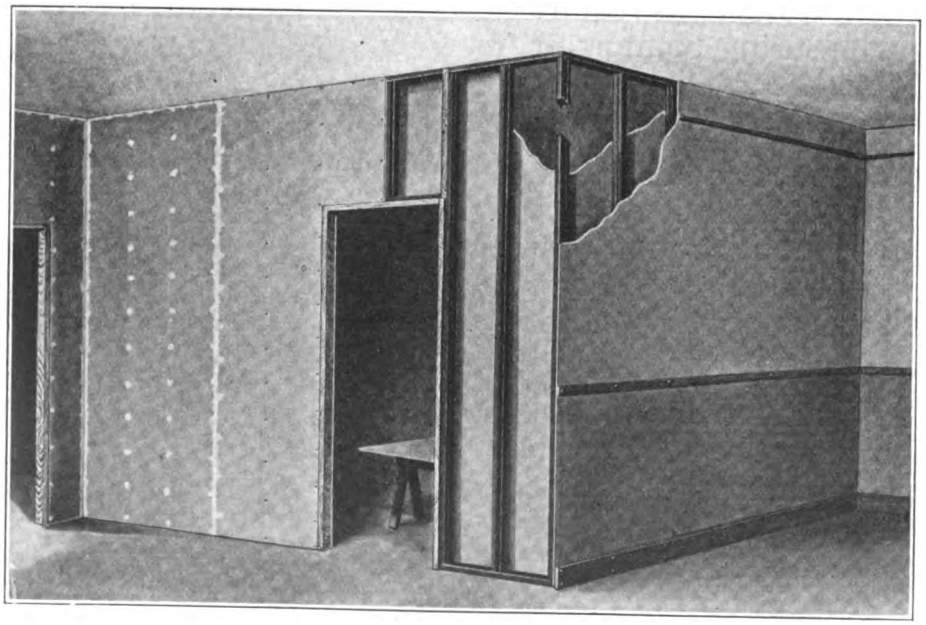
The manufacturers, Ryber Mfg Co., 414 Board of Trade, Indianapolis, Ind., recommend these units as fireproof, sound-proof, strong and light, and capable of being taken down and used on other jobs. The partions are constructed of heavy gauge, non-warping steel and 3/16-in. thick Gypsum wall board such as that manufactured under the various trade names of "Sheetrock," "Bestwall," "Gypsolite," "Gyprock." Hollow studs are made of heavy gauge cold rolled steel properly covered with pro tective paint to prevent rust.

When set up these up-rights form a straight, rigid framing for the application of wall board. Pronto partitions erected complete weigh less than 5 lbs. per sq. ft. The studs are furnished in ceiling heights leaving nothing to be assembled during construction. No mortar is required and no plaster to finish the construction; therefore, there is little debris left behind.

The illustration shows quite clearly the various units comprising these partitions and the method of installing them.

At the corner the gypspum wall board has been cut away, revealing steel uprights.

This type of partition is recommended for both temporary and permanent construction. The simplicity of installation suggests the former and strength of the latter.



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Announcing the Cinder Concrete Corporation

Licensing Agent Under Straub and Bo Patents

122 West 42nd Street, New York

The Cinder Concrete Corporation is organized for the purpose of further developing the Cinder Products Industry and through scientific research, engineering service and educational work maintaining the high standards of Cinder Concrete Products.

The Cinder Concrete Corporation has the authority to grant licenses under both the Straub Patent and the Bo Patent. It will promote new plants throughout the United States and Canada for the manufacture of block, brick and tile, according to these well-known processes.

The main office is located at 122 West 42nd Street, New York City, and branch offices are maintained at 416 Union Trust Building, Rochester, N. Y., and at 908 Park Building, Pittsburgh, Pa.

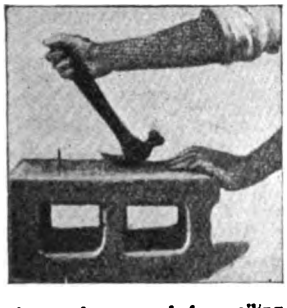
We feel justified in believing that this new arrangement will be of great benefit to the industry, and we trust that the good will we have enjoyed in the past will follow the new corporation in the future.



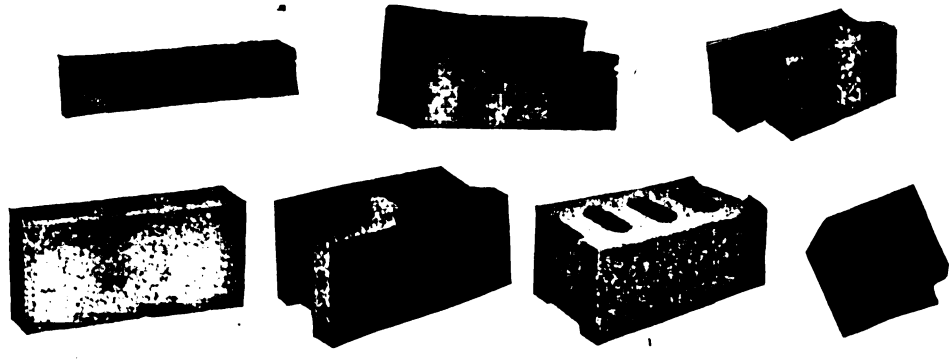
Pages 194-5

CROZIER-STRAUB, Inc.

122 W. 42nd Street **New York City**



As good as wood for nailing and the nails hold



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Selected List of Manufacturers' Literature

For the Service of Builders, Contractors, Architects and Engineers

THE publications listed in these columns are the most important of those issued by leading manufacturers identified with the building industry. They may be had without charge, unless otherwise noted, by applying on your business stationery to BUILDING AGE AND NATIONAL BUILDER, 239 West 39th Street, New York, or the manufacturer direct, in which case kindly mention this publication. Either the titles or the numbers may be used in ordering. This list is an editorial feature maintained for the convenience of our readers. It is not a part of the advertiser's contract and BUILDING AGE AND NATIONAL BUILDER assumes no responsibility for its correctness.

(See also Alphabetical Index, page 210)

AIR TOOLS—See Tools, Air

ALUNDUM FLOORS—See Flooring Composition

ARTISTS' MATERIALS—See Drafting Materials

ABBESTOS PRODUCTS

Asbestos Shingle, Slate & Sheathing Co., Ambler, Pa.

2281. *Ambler Asbestos Shingles.* Catalog. 44 pp. Illus.

2282. *Ambler Asbestos Corrugated Roofing and Siding.* Catalog. 36 pp. Standard Purlin Spacing Tables.

2283. *Ambler Asbestos Building Lumber.* 32 pp. Illus.

2284. *Engineers' Data Sheets.* 44 pp. Illus. Specifications for Ambler roofing and siding.

Johns-Manville, Inc., 292 Madison Ave., New York.

3551. *Johns-Manville Products.* Catalog. 16 pp.

Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City N. J.

4121. *Shingles That Last.* Illus. Deals with metal and asbestos roofing.

4123. *Asbestos Roofing and Colored Asbestos Shingles.* Literature.

ASBESTOS ROOFING—See Roofing Materials

ASH DUMPS—See Dampers, etc.

ASH HOISTS—See Hoists

AXES—See Edge Tools

BAND SAWS—See Woodworking Machinery

BAR BENDERS AND CUTTERS

Koehring Co., 31st and Concordia Sts., **Milwaukee, Wisc.**

3711. *Koehring Bar Benders and Cutters.* Folder. 4 pp. Illus.

3712. *Koehring Booklet.* Lists complete line of products.

BATCH BOXES—See Mortar Boxes

BATHROOM ACCESSORIES—See Bathroom Fixtures

BATHROOM FIXTURES

Crane Co., 836 S. Michigan Ave., Chicago.

2845. *Homes of Comfort.* 100 pp. Presents complete line.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.

3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.

Johnson Plumbing Supply Co., 3641-43 S. Halsted St., Chicago, Ill.

3571. *Johnson Catalog.* Illus. Covers entire line of plumbing and bathroom equipment, boilers, valves, and radiators.

Kenney-Cutting Prod. Corp., 507 5th Ave., New York.

3631. *Kenney Curtainless Shower.* Catalog A. Illus. Concerns several types of curtainless showers.

Wheeling Sanitary Mfg. Co., Wheeling, W. Va.

5041. *Descriptive Literature.* Treats of the combination bathtub.

BEDS, DOOR—See also Built-In Features

American Bed Co., 18th St. and Park Ave., St. Louis, Mo.

2071. *Out-O-Site.* 20 pp. Treating of portable, disappearing beds.

Concealed Bed Corp., 434 Garland Bldg., Chicago.

2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these concealed beds.

2772. *The Book of Beds.*

2773. *Rooms Without Walls.*

Murphy Door Bed Co., 22 W. Monroe St., Chicago.

4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments. Contains data on steel and wood cabinets, ironing boards, steel kitchens, etc.

BENCH GRINDERS—See Grinding Machinery

BITS—See Tools

BLACKBOARDS—See Slate

BLOCK MACHINERY—See Concrete Machinery

BLOWERS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.

2343. *Descriptive Literature on Blowers.* Illus.

BLOW TORCHES

Combination Blow Torch Mfg. Co., 2805 W. Van Buren St., Chicago.

5591. *Literature.* Describes combination blow torch, soldering iron, and branding iron.

Everhot Mfg. Co., Maywood, Ill.

3032. *Everhot Blow Torches.* Circular.

BLUE PRINT—See Drafting Material

New York Blue Print Paper Co., 102 Reade St., New York.

4161. *General Catalog.* Illus. Includes complete line of drafting materials, surveying instruments, rules, etc.

Peerless Blue Print Co., 341 5th Ave., New York.

4271. *Peerless Catalog.* Illus. Comprises descriptions of surveyors', builders', and draftmen's equipment.

BOILERS—See Heating Equipment

BOOKS—See also Plans

Audel & Co., Theo., 63 West 23rd St., New York.

2321. *Helping Hand Books for Mechanics, Engineers, Electricians and Builders.* 32 pp. Illus. Describes Audel Hand Books.

Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.

2711. *How to Read Blue Prints.* Booklet Illus. Includes plans.

2713. *Building Construction.* Booklet. Descriptive Literature.

Walker Co., Frank R., 536 Lake Shore Drive, Chicago.

4881. *How Practical Forms Increase Contractor's Profits.* Illus. Catalog. 64 pp. Describes all their books and forms.

BRACKETS—ROOFING, ETC.

Ajax Building Bracket Co., 1551 Rydal-Mount Rd., Cleveland Heights, O. (formerly Ajax Bracket & Outlet Co.).

2021. *Ajax Folding Metal Sheathing and Roofing Bracket.* Illus. Leaflet describing assembling steps and use.

Elite Mfg. Co., Ashland, O.

3011. *Scaffold Brackets.* Catalog. Deals with application of product. Includes prices.

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.

3172. *Gabriel Folding Brackets.* Descriptive literature.

Richards-Wilcox Mfg. Co., Aurora, Ill.

4427. *Descriptive literature.* Includes prices.

Seaman Safety Bracket Corp., Rochester, N. Y.

4541. *Why Take Chances?* Illus. Catalog. 24 pp. Gives facts relating to *Seaman Safety Brackets.*

Steel Scaffolding Co., Evansville, Ind.

4651. *Catalog C.* Illus. 16 pp. Describes *Trouble-Saver Steel Scaffolding*, giving prices.

BRANDING IRON

Combination Blow Torch Mfg. Co., 2805 W. Van Buren St., Chicago.

5591. *Literature.* Describes combination blow torch, soldering iron, and branding iron.

Everhot Mfg. Co., Maywood, Ill.

3032. *Literature.* Describes their branding iron and blow torch.

BRICK

American Face Brick Assn., 130 N. Wells St., Chicago.

2111. *The Story of Brick.* 5 pp. Illus. History and requirements of building brick.

2112. *A Manual of Facebrick Construction.* 116 pp. Illus. Types of facebrick for chimneys, etc. Price, $1.00.

2113. *The Home of Beauty.* 72 pp. Illus. 50 prize designs for small brick houses. Price, 50 cents.

2114. *Architectural Details in Brick Work.* 3 series, totalling 124 prints of brick work details. Price, $1.50 per set.

2115. *English Precedent for Modern Brick Work.* 100 pp. Illus. Plates and drawings of Tudor and Gothic. Price, $2.00.

2117. *Bungalow and Small House Plans.* 4 booklets. 50 pp. Illus. Contains 98 reversible designs. (1) 3-4 rooms; (2) 5 rooms; (3) 6 rooms; (4) 7-8 rooms. 35 cents. $1.00 per set.

Common Brick Manufacturers' Assn., 2121 Guarantee Title Bldg., Cleveland, O.

2761. *The Home You Can Afford.* 64 pp. Illus. Contains 62 designs with floor plans of houses and bungalows. 10 cents.

2762. *Your Next Home.* 64 pp. Illus. Contains 60 designs with floor plans of brick houses and bungalows. Price, 10 cents.

2763. *Farm Homes of Brick.* 24 pp. Illus. Offers 10 selected designs with floor plans of farm houses. Price, 5 cents.

2764. *Brick—How to Build and Estimate.* 72 pp. Illus. Includes brick construction data and estimating tables. 25 cents.

2765. *Skintled Brickwork.* 15 pp. Illus. Shows 7 selected houses by Chicago architects. Price, 15 cents.

2766. *Brick Silos and How to Build Them.* 40 pp. Illus. Gives information concerning silo construction. 10 cents.

Hocking Valley Products Co., Logan, O.

3401. *Face Brick.* Descriptive literature.

BRIDGING—See also Metals and Metal Specialties

General Fireproofing Co., Youngstown, O.

32213. *GF Metal Building Specialties.* Folder, A. I. A. File No. 16E2. 20 pp. Illus. Includes information on bridging, etc.

BUILDING BLOCKS

Crozier-Straub, Inc., 120 W 42nd St., New York.

2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

BUILDING CONSTRUCTION

Crozier-Straub, Inc., 120 W. 42nd St., New York.

2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

General Fireproofing Co., Youngstown, O.

3221. *The Fireproofing Handbook.* 72 pp. Illus. Deals with use of fireproofing materials in building construction.

Milwaukee Corrugating Co., Milwaukee, Wis.

4001. *Metallic Construction for Modern Home.* 16 pp. Illus. Shows home interiors *with Milcor Stay Rib.*

Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.

4201. *Northwestern.* General Catalog. 16 pp. Illus. Covers complete line of Northwestern products, including Kno-Burn metal lath. *Longspan Plasta-Saver, Nemco* channels.

Smith Co., T. L., Milwaukee, Wisc.

4593. *Smith Excavator and Loader.* Bulletin No. 408. Illus. Deals with operation for building construction work.

Sykes Metal Lath Co., Niles, O.

4731. *Metal Lath for All Purposes.* Illus. Booklet. 20 pp. Contains information pertaining to types of their metal lath.

4732. *Catalog and Handbook.* Illus. 32 pp. Deals with metal lath and steel building specialties, with specifications and details.

Truscon Steel Co., Youngstown, O.

4791. *Truscon Floorstyle Construction.* Form D-352. 16 pp. Contains data and illustrations of these installations.

4792. *Truscon Standard Buildings.* Form D-398. 48 pp. Gives description and illustrations of these steel buildings.

4793. *Truscon Building Products.* Illus. Form D-376. 112 pp. Contains brief description of each of their products.

4794. *Modern School Construction.* Form D-395. 16 pp. Shows their products used in this type of construction.

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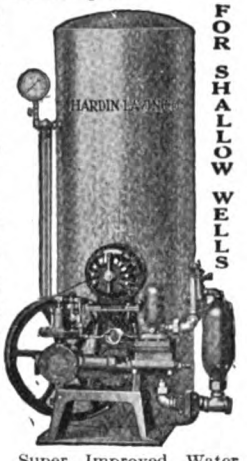
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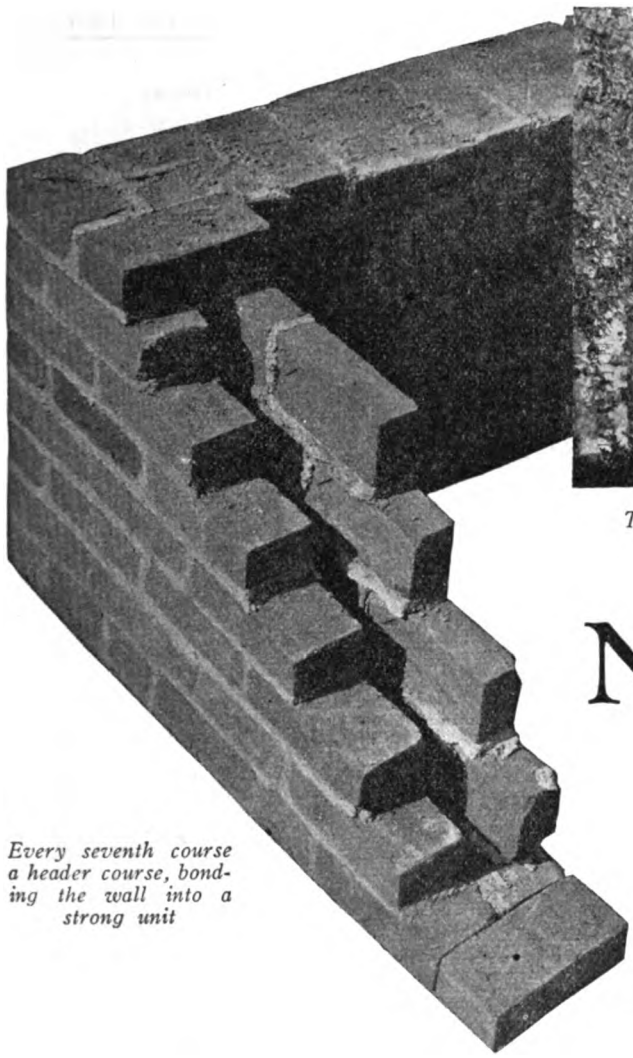
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Selected List of Manufacturers' Literature

(Continued from page 148)

BUILDING PAPER
Bird & Son, East Walpole, Mass.
2451. *Waterproof.* 6 pp. Illus. Describes *Neponset* building paper.
Brown Company, Portland, Me.
2531. *Bermico Sheathing Paper.* Folder. Illus. Contains samples of four different weights of Bermico. Includes name and location of local dealer.
BUILT-IN FEATURES
Alberene Stone Co., 153 W. 23d St., New York.
2031. *Illustrated literature* on soapstone laundry tubs.
Concealed Bed Corp., 434 Garland Bldg., Chicago.
2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these Concealed Beds.
2772. *The Book of Beds.*
2773. *Rooms Without Walls.*
Garden City Plating & Mfg. Co., 1430 So. Talman Ave., Chicago.
3192. *Clothes Closet Plans.* Folder. Discusses convenience and capacity of closets built with *Garcy Garment Carriers.*
Herrick Refrigerator Co., Waterloo, Ia.
3871. *Refrigerators.* Catalog. 56 pp. Illus. Describes various types of refrigerators.
Hess Warming and Ventilating Co., 1207 So. Western Ave., Chicago.
3381. *Snow-White Steel Cabinets and Mirrors.* Booklet. 16 pp. Illus. Describes *Hess* steel medicine cabinet.
Kilmoth Products Corp., 50B Union Sq., New York.
3671. *No More Folding, Packing or Mussing.* Folder. Illus. Deals with use of built-in cedar closets.
3672. *Kilmoth.* Leaflet. 2 pp. Explains Kilmoth cedar lining.
Murphy Door Bed Co., 22 W. Monroe St., Chicago
4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments. Contains data on steel and wood cabinet ironing boards, steel kitchens, etc.
Ohio State Stove & Mfg. Co., 666 Lake Shore Drive, Chicago.
4231. *The Kab-Range.* Catalog BA-3. Illus. Describes a combination of the *Packer All-Steel Kitchen Cabinet* and *Ranges.*
Wasmuth-Endicott Co., Snowden St., Andrews, Ind.
4941. *12-page Folder.* Features *"Kitchen Maid"* unit systems. Also another mailing piece, showing built-in kitchen apparatus.
White Steel Sanitary Furniture Co., Grand Rapids, Mich.
5341. *Literature.* Describes their "White-Steel" Medicine Cabinets and other "White-Steel" products.
CABINETS—See Built-In Features
CALCIUM CHLORIDE—See Concrete Process
CANVASS—See Roofing Materials
CARBURETORS—See Trucks, Motor Supplies
CARPENTERS' TOOLS—See Tools, Edge, also Tools
CASEMENTS—See Windows, also Windows, Metal
CASEMENT HARDWARE—See Hardware
CASTINGS, Iron, and Cast Products
Forest City Foundry & Mfg. Co., Cleveland, O.
3142. *Light Grey Iron Castings* and *Cast Mail Boxes.* Descriptive.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus. Covers entire line of products manufactured in the company's plants.
CAULKING AND GLAZING COMPOUNDS
Bird & Son, East Walpole, Mass.
2452. *The Handy Man's Helper.* 6 pp. Illus. Presents various uses for *Bird's* plastic cement.
Weatherproof Caulking Co., 756 Washington Av., No., Minneapolis, Minn.
4971. *Literature.* Gives information and prices.
CEILINGS, METAL—See Metals, etc.
CELLAR DRAINS—See Plumbing Equipment
CEMENT—Portland
Alpha Portland Cement Co., Easton, Pa., and Chicago.
2061. *Alpha Cement—How to Use It.* New edition of handbook. 114 pp. Illus. Deals with forms of construction.
2062. *Alpha Aids.* Illus. Periodical dealing with various phases of the industry.
2063. *Alpha Service Sheets.* Instructions on concrete construction.
Kosmos Portland Cement Co., Louisville, Ky.
3741. *For Enduring Masonry.* Folder. 8 pp. Illus. Discusses use of *Kosmortar,* a building mortar.
Lehigh Portland Cement Co., 30 E. 42nd St., New York.
3771. *Build the Castle of Your Dreams.* 32 pp. Deals with concrete home construction.
3772. *Permanent Satisfaction in Your Building.* Illus. Book. 48 pp. Treats of fire-safe farm construction.
3773. *The Lehigh Magazine.* New House monthly.
Louisville Cement Co., Louisville, Ky.
3821. *Bitrment for Perfect Mortar.* Handbook. Contains data.
Pennsylvania Cement Co., 131 E. 46th St., New York.
4291. *Pennsylvania Concrete Manual.* Handbook. 48 pp. Illus. Discusses clay, reinforcing, setting time, slump test, etc.
4292. *Three Booklets.* Deal with phases of Concrete work. By Frank W. Skinner, C.E.
Portland Cement Assn., 111 W. Washington St., Chicago.
4351. *Concrete Masonry Construction.* Catalog. 32 pp. Illus. Contains consideration of approved practices.
4352. *Concrete Floors.* Booklet. 16 pp. Illus. Gives data.
Sandusky Cement Co., Cleveland, O.
5182. *Concrete Work Made Easy.* Booklet. Deals with the solution to water-proofing problems in concrete construction.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4811. *Ivory Keene's Cement.* Bulletin KC1. Gives data.
CEMENT—High Temperature
Johns-Manville, Inc., 292 Madison Ave., New York.
3552. *Refractory Cements.* 16 pp. Illus. Presents facts and data.
3553. *Aerite Boiler Wall Coating.* Illus. Discusses fuel saving.
CEMENT—Magnesite
CEMENT PAINT—See Paint, Cement
CEMENT TOOLS
Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.
2011. *Abram Double Action Long-Handled Cement Finishing Tools.* 12 pp. Illus. Shows entire line.
2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.
CHIMNEY CAPS—See Ventilators, also Metals, etc.
CINDER BLOCKS—See Building Blocks
CHISELS—See Tools, Edge
CIRCULAR SAWS—See Saws
CLAMPS
Black Bros. Co., Inc., Mendota, Ill.
2472. *Black Veneer and Glue Room Equipment.* Catalog No. 11. 16 pp. Illus. Covers the line of clamps, presses.
2473. *Gluing Clamps.* 24 pp. Illus. Gives additional information on veneer and glue room equipment.
Doniey Bros. Co., 13920 Miles Ave., Cleveland, O.
29511. *Brick Clamps.* Leaflet. Illus.
Taylor, James L., Mfg. Co., Poughkeepsie, N. Y.
4751. *Catalog.* Illus. 32 pp. Lists and describes their lines of clamps; with prices.
4752. *Clamp Questions.* Illus. Pamphlet. Deals with several types of clamps and gives information as to use.
4753. *They Know.* Folder. Gives illustrations of two clamps.
CLOTH WALL COVERING—See Wall Covering
CLOTHES CLOSET FIXTURE
Garden City Plating & Mfg. Co., 1430 So. Talman Ave., Chicago.
3192. *Clothes Closet Plans.* Folder. Discusses convenience and capacity of closets built with *Garcy Garment Carriers.*
Knape & Vogt Mfg. Co., Grand Rapids, Mich.
3691. *Beautiful Clothes Closets.* Booklet. Illus.
3692. *Plans for Modern Clothes Closets.* Folder. Blue prints.
CLOTHES DRYERS
Chicago Dryer Co., 2206 N. Crawford Ave., Chicago.
5511. *Laundry Equipment.* Catalog, 48 pp., illustrated. Gives description of dryers, electric washing machines, and ironing machines for homes, apartment buildings and small institutions.
Victor Dryer Co., 1 Shirley St., Worcester, Mass.
5461. *Catalog.* Illus. Includes price list of dryers, brackets, etc.
CLUTCHES—See Hoists
COAL CHUTES
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2952. *Descriptive literature.* Illus.
Gabriel Steel Co., Bellevue Ave., Detroit, Mich.
3171. *Gabriel Chutes.* Descriptive literature.
Majestic Co., Huntington, Ind.
3901. *Six Reasons Why.* Folder. 4 pp. Illus. Explains details of Majestic coal window.
Sykes Metal Lath Co., Niles, O.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.
COLLEGES AND SCHOOLS—See Schools
COLORS, CEMENT, MORTAR, STUCCO—See Mortor Colors
COLUMN BASES
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General catalog. 46 pp. Illus. Covers complete line of Cheney products.
COLUMN AND BEAM COVERING
United States Gypsum Co., 205 W. Monroe St., Chicago.
4812. *Bulletin PT4.* Gives relevant data.
COLUMNS, IRON AND STEEL
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2958. *Stanchions for Basement.* Leaflet. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp.
COLUMNS, WOOD
Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24 pp.
Pacific Lumber Co. of Illinois, 2060 McCormick Bldg., Chicago.
4241. *Construction Digest.* Illus. Contains data and description.
COMBINATION DOOR—See Doors
COMBINATION WOODWORKERS—See Woodworking Machinery
COMPARTMENTS
Weis, Henry, Mfg. Co., Atchison, Kan.
4981. *Weisteel Compartments.* Catalog 11. Illus. Plans, specifications and details of metal partitions and doors for toilet rooms, shower and dressing rooms, hospital articles, etc.
CONCRETE ACCESSORIES
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2957. *Concrete Inserts.* Descriptive literature. Illus.
Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4201. *Northwestern.* General catalog. 16 pp. Northwestern products, including *Kno-Burn* metal lath, *Longspan Plasta-Saver, Nemco* channels, corner bead and metal waste baskets.
4205. *Designing Data.* Catalog. 94 pp. Covers complete line of *Econo* expanded metal for reinforced concrete.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletin FT3.* Deals with *Floor Voids* for use in concrete.
Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder System.* Catalog. Illus. Takes method of building double monolithic concrete walls without forms.
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section dealing with their electrically welded wire fabric for concrete reinforcement.
CONCRETE BLOCKS—See Building Blocks
CONCRETE BLOCK MACHINE—See Concrete Machinery
CONCRETE MACHINERY
Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2051. *Why Stay a Little Fellow?* Folder. 4 pp. Illus. Describes the *Magic Concrete Mixer.*
2052. *The Concrete Road to Success.* 22 pp. Illus. *Magic Mixer.*
Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.
2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.
American Cement Machine Co., Keokuk, Iowa.
2101. *Boss Hoists.* Bulletin No. 117. 6 pp. Illus.
2102. *Boss Tilter Mixer.* 12 pp. Illus. Specifications.
2103. *Boss Big One Bagger.* Bulletin No. 5. Illus.
2104. *Boss Heavy Duty Type Mixer.* No. B24. 30 pp. Illus.
2105. *Boss Combination Paving and Building Mixer.* No. P9.
Anchor Concrete Mchy. Co., Adrian, Mich.
2231. *Anchor Line of Concrete Machinery.* 36 pp. Illus.
2232. *Hobbs Concrete Block Machine.* 16 pp. Illus.
2233. *Handbook* on concrete products machinery. 66 pp. Illus.

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The Common Brick Manufacturers' Association of America

2133 Guarantee Title Building, Cleveland

Chicago.....Chamber of Commerce Bldg.
Detroit, Mich.....404 Penobscot Bldg.
Hartford, Conn.....226 Pearl Street
Los Angeles.....342 Douglas Bldg.
Nashville, Tenn.....Harry Nichol Bldg.
New Orleans, La.....904 Carondelet Bldg.

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New York City.....
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Philadelphia.....City Centre Bldg.
Portland, Ore.....909 Lewis Bldg.
San Francisco.....811 Sharon Bldg.
Seattle, Wash.....524 Burke Bldg.

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Selected List of Manufacturers' Literature

(Continued from page 150)

C. H. & E. Mfg. Co., Clinton & Mineral Sts., Milwaukee, Wis.
2584. *Mortar Mixers.* Bulletin. Illus.

Chain Belt Co., Milwaukee, Wis.
2681. *Rex Mixers.* Catalog No. 117. 26 pp. Illus. Deals with mixers and mixer equipment.
2682. *Rex Pavers.* Catalog No. 118. 42 pp. Illus. Contains descriptions, details, and specifications of various types.

Concrete Equipment Co., Holland, Mich.
2781. *Utility Concrete Equipment.* Catalog. 28 pp. Illus. Shows various types and size of *Utility* concrete block machines
2782. *Utility High Speed Ramming Machine.* 6 pp. Illus. Presents details of block machine.

Construction Machinery Co., Waterloo, Iowa.
2801. *The Wonder Catalog.* Covers line of *Wonder* Equipment.

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery in block and tile manufacture.

Ideal Concrete Machinery Co., 5000 Spring Grove Ave., Cincinnati, O.
3471. *Ideal Concrete Machinery.* Catalog No. 35. 80 pp. Illus. Describes complete line of concrete block, and brick making machines, mixers, hollow tile machines and ornamental molds.
3472. *Ideal Cincinnatus Batch Mixers.* Booklet. 26 pp. Illus.

Helm Brick Machine Co., 189 Mitchell St., Cadillac, Mich.
3351. *Helm Catalog.* Deals with *Helm* brick and block machines. Includes description of *Helm* mixers.

Jaeger Machine Co., Columbus, O.
3531. *Jaeger Mixers.* Catalog. 36 pp. Illus. Covers complete line of concrete, plaster, and mortar mixers.

Koehring Co., 31st & Concordia Sts., Milwaukee, Wisc.
3713. *Dandie Mixer.* Circular. Discusses *Dandie* light mixers.
3714. *Concrete—Its Manufacture and Use.* Book. 208 pp. Treats generally on the subject of concrete.

Kwik-Mix Concrete Mixer Co., Port Washington, Wis.
3751. *Kwik-Mix Concrete Mixers.* Series of bulletins. Illus. Describes types No. 3, 3½, 4-L, 7-L.

Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus. Lists such equipment as mixers, scrapers, barrows, hoists, etc.

Little Whirlwind Mixer Co., 438 Gould St., La Crosse, Wis.
3801. *Master Mixer.* Circular. Illus. Deals with construction and operation. Includes prices.

Miles Mfg. Co., Jackson, Mich.
3991. *General Catalog.* Illus. Presents complete *Miles* line of block and brick machines, power lampers, mixers and moulds.

Ransome Concrete Machinery Co., Dunellen, N. J.
4381. *7-S Building Mixer.* Bulletin 110A. Illus.
4382. *Standard Building Mixers.* Bulletin 112. Illus. Describes trucks, main frames, and other parts, and standard mixers.
4383. *4-S and 7-S Bantam Mixers.* Bulletin 114. Illus.
4384. *3½-S Tilting Mixer.* Bulletin 116.
4385. *21-E Paving Mixer.* Bulletin 113. Illus.
4386. *Chuting Equipment.* Bulletin 202. Illus. Gives details of construction, drawings, tables, etc.
4387. *Monkey-on-a-Stick.* Bulletin 115. Illus.

Remmel Mfg. Co., Dept. H., Kewaskum, Wis.
4391. *Remmel Catalog,* 1925. Illus. Takes up complete line *Remmel Tilting Type* mixers.
4392. *Remmel Mixers.* 2 Folders. Contains description and data.

Sheldon Mfg. Co., Inc., Box 25, Neahawa, Neb.
4561. *The "Know How" of Concreting.* Illus. Booklet. 127 pp. Contains information on various phases of concrete work.
4562. *A Series of Leaflets,* folders etc. Illus. Presents their mixers and explains their use.

Smith Co., T. L., Milwaukee, Wisc.
4591. *Smith Simplex Mixer.* Bulletin No. 400-A. 20 pp. Illus. Describes construction of Smith mixers.
4592. *Smith Non-Tilting Mixer.* Bulletin No. 405-A. 48 pp. Illus. Describes operation with details of construction.
4594. *Smith Concrete Mixers and Pavers.* Catalog. Illus. 64 pp. Gives typical operation installations, details.

Stewart Mfg. Co., 124 Rath St., Waterloo, Ia.
4681. *Catalog* 25. Illus. Contains full description of their mixers.

Universal Cement Mold Co., No. Milwaukee, Wis.
5471. *Build the Hollow Wall Way.* Literature.

Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder Machines.* Booklet. Illus. Takes up method of building double monolithic concrete wall without forms.

CONCRETE PROCESSES

General Fireproofing Co., Youngstown, O.
3224. *Crystalrox.* Folder. 4 pp. Illus. Pertains to hardening and dust-proofing of cement floors.
3225. *Metallic Floor Hardener.* Folder. GF. 140. 4 pp. Illus. Relating to construction treatment for cement floor hardening.

Morene Products Co., Inc., 241 W. 28th St., New York.
5371. *Morene, the Wall Finish Distinctive; a Portland Cement Product—Atlas White.* Brochure. Illustrated. Shows examples of *Morene* used for ceiling, wall and mural decorations.
5372. *Folder.* Describes *Morene* and its use as decorative medium.

Solvay Process Co., 40 Rector St., New York.
4601. *For Concrete Summer and Winter.* Illus. Catalog. 16 pp. Describes uses of their calcium chloride for concrete.
4602. *Solvay Calcium Chloride for Concrete Construction.* Illus.

Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder System.* Catalog. Illus. Describes building double monolithic concrete walls using Van Guilder machines in place of forms.

CONCRETE REINFORCING—See Concrete Accessories

CONCRETE SURFACER

Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.
2791. *Berg Surfacer and Finisher.* 8 pp. Illus. Deals with concrete surfacing apparatus.

CONDUCTOR PIPE—See Pipe, Conductor

CONSTRUCTION, FIREPROOF—See Building Construction

COPPER—See Leaders, Flashings and Gutters

CORNER BEAD—See Metals, also Building Construction

CORRESPONDENCE COURSES—See Schools

CORRUGATED ASBESTOS—See Asbestos Products

CRANES

Koehring Co., 31st & Concordia Sts., Milwaukee, Wisc.
3712. *Koehring Booklet.* Lists complete line of products.

CRAYONS, LUMBER

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line of Aloe levels, transits, and drafting material.

DADO HEADS—See Woodworking Machinery

DAMPERS AND ASH DUMPS (FIREPLACE)

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.
3175. *Dome Dampers and Ash Dumps.* Descriptive literature.

Hornet Mantel Co., 1147-A Market St., St. Louis, Mo.
3442. *Homet Dampers.* Descriptive literature. Illus.

Sykes Metal Lath Co., Niles, O.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.

DAMPPROOFING—See Waterproofing, also Stucco, etc.

DECK CLOTH—See Roofing Materials

DERRICKS

Sasgen Derrick Co., 3010 W. Grand Ave., Chicago, Ill.
4531. *Circular No.* 2. Illus. Comprises descriptions of complete line of Sasgen derricks. Includes prices.

DIFFUSING GLASS—See Glass, Ornamental

DIRECT MAIL ADVERTISING—See Mailing Lists

DOOR CHECKS—See Hardware, Window and Door

DOORS, METAL

Bayley Co., Wm., Springfield, O.
2381. *Bayley-Springfield Steel Doors.* Bulletin D21. 4 pp. Illus. Reproductions and details.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4424. *Monarch Mill-Type Doors.* Illus. Catalog. 8 pp. Contains descriptions and blueprints of this mill-type door.

Truscon Steel Co., Youngstown, O.
4795. *Truscon Steel Sash.*. Illus. 80 pp. Handbook.
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog. Contains designing data, tables and views of stock sash installations.

DOORS—Wood

Chicago & Riverdale Lumber Co., Riverdale, Chicago.
5421. *Catalogs.* Illustrated. Cover entire line of doors, sash, etc.

Combination Door Co., Fond-du-lac., Wisc.
2751. *Easy-Change Combination Doors.* Catalog H. Illus. Deals with description of combination storm and screen door.

Long-Bell Lumber Co., R. A. Long Bldg., Kansas City, Mo.
3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.

Morgan Sash & Door Co., Chicago, Ill.
4041. *Building with Assurance.* Catalog. 440 pp. Illus. Shows bungalows and houses (in color) with floor plans. Includes information on interior decorating, etc. Price $2.50, refunded under special conditions.

Paine Lumber Co., Ltd., Oshkosh, Wisc.
4251. *Miracle Doors. Booklet.* 16 pp. Illus. Presents details concerning *Paine* doors in paint and natural finish.
4252. *Paine Miracle Doors.* Catalog. 56 pp. Illus. in color. Treats on *Miracle* doors from an interior decorative angle.

Stearns, A. T., Lumber Co., 87 Taylor St., Neponset, Boston, Mass.
4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawings of mantels, columns, doors, sash, windows, blinds.

Wheeler, Osgood Co., Tacoma, Wash.
5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of these doors.
5022. *Laminex Doors.* Catalog 31. Includes 20 designs in vertical and flat grain veneers. Size and details.
5024. *Laminex* Book. For architects and the building trade.

DOORS, SIDEWALK—See also Vault Lights

American 3-Way-Luxfer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2206. 3 *Way-Luxfer Sidewalk Doors.* Bulletin D23. 4 pp. Illus. Describes 5 types, also includes 3-*Way* Automatic door guard.

DOOR FRAMES—See Frames, Door and Window

DOOR AND WINDOW TRIM

Milwaukee Corrugating Co., Milwaukee, Wisc.
4003. *Milcor* Expansion Door and Window *Trim.* 8 pp. Illus.

DOOR BEDS—See Built-In Features

DRAFTING AND SURVEYING MATERIALS

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line of Aloe levels, transits and drafting material.

Beckman Co., L., 1002 Jackson Ave., Toledo, O.
2421. *Survey Instruments.* Catalog No. 8. 82 pp. Illus. Covers complete line of *Beckman* levels and transits. With prices.

Geier & Bluhm, Inc., Troy, N. Y.
3201. *Standard Precision Convertible Level.* Circular C. 6 pp. Illus. Deals with level-and-transit and leveling rod.
3202. *Junior Convertible Level.* Circular E. 6 pp. Illus. Contains information regarding *Junior* level-and-transit.

Kolesch & Co., 138 Fulton St., New York.
3721. *Catalogue of Kolesch.* Book. 336 pp. Illus. Shows complete line of surveying and drafting instruments

Makepeace, Inc., B. L., 387 Washington St., Boston, Mass.
3921. *Loxo Compound Level.* Booklet. 16 pp. Illus. Presents details on compound level and transit. Includes price.

Master Rule Mfg. Co., Inc., 815 E. 136th St., New York.
3951. *Interlox Master Slide Rule.* Folder. 4 pp. Illus. Explains use of *Interlox* rule.

New York Blue Print Paper Co., 102 Reade St., New York.
4161. *General Catalog.* Illus. Includes complete line.

Peerless Blue Print Co., 341 5th Ave., New York.
4271. *Peerless Catalog.* Illus. Comprises descriptions of surveyors', builders' and draftmen's equipment.

Stevens, E. A., Newton Falls, O.
4661. *Circular.* Describes line, and line and surface levels prices.

Warren-Knight Co., 136 N. 12th St., Philadelphia, Pa.
4921. *Sterling Tracing & Detail Papers.* Samples.
4922. *Sterling Levels and Transits.* Catalog. 32 pp. Illus. Contains specifications and structural details of instruments.
4923. *Pocket Note Book.* Illus. Gives instructions for use.

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BULLDOG
PIPELESS FURNACE

Heats Home for 25¢ a Week!

"I can run my Bulldog furnace for fourteen days in normal weather conditions on the actual cost of fifty cents." So writes F. R. Redetzke, of Cleveland, North Dakota, and he adds: "Hard to believe is it? That's what some of my neighbors thought until I showed them! We have an unlimited amount of grain screenings in this country. That's the fuel I am using."

That's what the Bulldog does with about the lowest grade fuel you can think of! Here's what it does with coal:

2½ Tons Heats 5 Rooms

"There is no heater to compare with the Bulldog. I burned 2½ tons of coal last winter and heated 5 rooms and bath."—Walter Geary, Gloucester, Mass.

Heats Seven Rooms Instead of One!

"Your letter received asking about the Bulldog Furnace. We have had ours in about six weeks and so far it does all Babson Bros. claim for it. We have seven rooms, four on the first floor and three on the second, and it heats them fine. We find it takes a little more coal to heat the whole house than it did to heat one room with a stove using chestnut coal." J. B. Smith, 19 Elm St., Somerville. N. J.

Cuts Coal Bill in Half!

"I had a hot air furnace in our 7-room house before I got the Bulldog and our house was always cold. With the Bulldog it only takes *half as much coal* and we had weather below zero, and the house was nice and warm in the morning when we got up. We never have the draft on more than half an hour at a time, and it has the place red hot. It keeps the fire all day in mild weather."
— Jess T. Conrad, 1211 W. Arch St., Shamokin, Pa.

No Money Down!

Comes Completely Erected. Install It Yourself

The Bulldog is sent to you for *free inspection.* Then, if satisfied, you make only small monthly paymen s at our remarkably low price. Write today! *Don't* miss this chance to cut down your fuel bills! *Install a Bulldog Furnace.* It comes to you completely erected — goes through any door — fits any height of basement — and you install it yourself in less than two hours! In fact, H. B. Keater, of Libertyville, N. Y., says he installed his Bulldog in 28 minutes! *Don't* put up with the old fashioned stove heat or some outworn furnace — when you can so easily get the greatest advance in scientific heating at an astonishingly low price. The Bulldog burns almost *any* kind of fuel, from hard coal to cheap screenings. Keeps a wood fire over night. **We have factory connections in both east and west and ship from the nearest point.**

Send for FREE Book

Learn how to have all the heat you want—where you want it—and save money! Remember the Bulldog is *different*—and *better!* Complete combustion of gases save 25% of your fuel bill. Exclusive Gable-Top Radiator receives *all* the direct rays of the fire. Exclusive oblong fire-pot is not only ideal for coal, but enables you to keep a wood fire over night. Remember—the Bulldog is sent for *free inspection*—then small monthly payments at an amazingly low price! Send for Free Book TODAY!

BABSON BROS., 19th Street and California Avenue, Dept. C-555 Chicago, Ill.

Babson Bros., Dept. C-555
19th St. and California Ave., Chicago, Ill.

Without obligating me in any way, please send me your free catalog and special offer on the Bulldog Pipeless Furnace.

Name.....

Address.....

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Selected List of Manufacturers' Literature

(Continued from page 152)

White Co., David, 907 Chestnut St., Milwaukee, Wisc.
5051. Catalog A. *White's Improved Instruments.* Illus. 36 pp.
Wissler Instrument Co., 672 No. Broadway, St. Louis, Mo.
5111. *Catalog.* Illus. Covers entire line of drafting and surveying instruments, including levels, transits, plumb bobs, tapes, etc.

DRAWING MATERIALS—See Drafting Materials
DRAW PULLS—See Hardware

DUMBWAITERS—(See also Elevators)
Sedgwick Machine Works, 150 West 15th St., New York.
4551. *Catalog O.* Illustrated. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiters, brass tube dumb waiters, etc.

ELECTRICAL EQUIPMENT
Chicago Dryer Co., 2206 N. Crawford Ave., Chicago.
5511. *Laundry Equipment.* Catalog, 48 pp., illustrated. Gives description of dryers, electric washing machines, and ironing machines for homes, apartment buildings and small institutions.
Erie Fixture Supply Co., Erie, Pa.
5351. *Catalog No. 26.* Describes their line of completely wired lighting fixtures.
General Electric Co., Bridgeport, Conn.
3211. *Electrical Contractors' Catalog.* Illus. Takes up complete line of products for the wiring contractor.
3212. *Wires and Cables.* Catalog. 85 pp. Illus. 4 bulletins.
3213. *Electric Fans.* Folder. 6 pp. Illus. Gives details.
3214. *Reliable Wiring Devices.* Pocket Catalog. 206 pp. Illus. Gives prices and data for switches, rosettes, etc.
Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn.
3311. *H & H Line of Electrical Wiring Devices.* Catalog R. 152 pp. Illus. Presents line of *H & H* wiring equipment.
3312. *Architect's Handbook.* 18 pp. Illus. Contains specifications of *H & H* equipped buildings.
3313. *Tumbler Switch.* Folder. 4 pp. Illus. Describes action of H & H type tumbler switch.
Ilg Electric Ventilating Co., 2850 N. Crawford Ave., Chicago.
5521. *Ventilating Through the Kitchen.* Leaflet. Contains data on use and installation of electric exhaust fans for small homes.
Johns-Manville, Inc., 292 Madison Ave., New York.
3555. *Friction Tapes & Rubber Splicing Compounds.* Folder. 4 pp.
3556. *Fibre Conduits.* Booklet. 12 pp. Illus.
3557. *Electrobestos.* Booklet. 16 pp. Illus.
Western Electric Co., New York.
5001. *Inter-Phones Systems.* Descriptive literature.
5002. *Western Electric Lighting Manual.* Gives data and specifications.

ELEVATORS
American Saw Mill Machinery Co., 61 Main St., Hackettstown, N. J.
2172. *General Catalog. No. 22.* Contains description of hoists and general line of woodworking machinery.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Kimball Bros. Co., Council Bluffs, Ia.
3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.
Otis Elevator Co., 11th Ave. and 26th St., New York.
5451. *Catalogs.* Illustrated. Concerns passenger and freight elevators.
Sedgewick Machine Works, 150 West 15th St., New York.
4551. *Catalog O.* Illus. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiter, brass tube dumb waiters, etc.

ELEVATOR DOOR EQUIPMENT
McCabe Hanger Mfg. Co., 425-27 W. 25th St., New York.
3851. *Elevator Door Hangers.* Booklet 23-B. 8 pp. Illus. Shows details of *McCabe* elevator door hangers.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4423. *Ideal Elevator Door Equipment and Checking Devices.* Illus. Catalog, A-21. Lists, with prices, elevator door hangers, closers, latches, etc., for various types of doors.

ENGINES
Hercules Corporation, Evansville, Ind.
3361. *Hercules Engines.* Bulletin No. 18. 24 pp. Illus. Presents complete line of Hercules engines. Contains specifications.

FIBRE BOARD LUMBER—See Wallboard

FIREPLACE FURNISHINGS
Brecher Co., 445 W. Jefferson St., Louisville, Ky.
5241. *Brecher Mantels.* Descriptive literature.
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus. Covers complete line of *Cheney* products.
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2951. *Book of Fireplace.* 24 pp. Illus.
Hornet Mantle Co., 1147-A Market St., St. Louis, Mo.
3443. *Hornet Fireplace Furnishings.* Literature. Illus.
3444. *Hornet Wood and Tile Mantels.* Literature. Illus.
Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.
4171. *General Catalog.* No. 10. Illus. Presents complete line of hardware specialties and carpenters' tools.

FIREPROOF CONSTRUCTION—See Building Construction

FLAG POLES
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Pole & Tube Works, Inc., Newark, N. J.
4331. *Flag Poles and Radio Masts.* Provide designs for contemplated installations.

FLOOR HARDENERS—See Concrete Processes

FLOOR MAINTENANCE
General Fireproofing Co., Youngstown, O.
3226. *Wood Floor Preservative.* Folder GF160. 12 pp. Illus.
Johnson & Son, S. C., Dept. BA4, Racine, Wisc.
3561. *Proper Treatment for Floors, Woodwork, and Furniture.* 32 pp. Illus. Treats on hard and soft wood finish.
3562. *Portfolio of Wood Panels.* 14 pp. Illus. Contains actual panels of finished woods. Includes finishing data.

FLOORING
Armstrong Cork Co., Linoleum Division, Lancaster, Pa.
2271. *Business Floors.* 48 pp. Illus. Data and directions on laying in public and semi-public buildings.
2272. *Armstrong's Linoleum Floors.* Handbook. Illus. Contains general information, tables and details on linoleum laying.
California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of "Information Sheets" on California White Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.
Certain-teed Products Corp., 100 E. 42nd St., New York.
2671. *Linoleum, Floortex, Roll Goods and Rugs.* Descriptive literature, samples and prices.
Long-Bell Lumber Co., R. A. Long Bldg., Kansas City.
3811. *The Perfect Floor.* 16 pp. Illus. Discusses methods of laying, finishing and caring for oak flooring.
Norton Co., Worcester, Mass.
4211. *Norton Floors.* Booklet. 24 pp. Describes the several types of *Alundum* floors with reference to their applications.
4212. *Norton Floors.* Monthly House Organ. 4 pp. Illus.
4213. *Alundum Safety Tile.* Booklet. 38 pp
Oak Flooring Bureau, 1014 Ashland Block, Chicago.
5161. *The Story of Oak Floors.* 24 pp. Illus. Discusses oak for floors and different types of product.
5162. *How and Where to use Oak Floors.* 16 pp. Illus. Gives details and specifications.
5163. *For School Buildings.* Folder. 6 pp. Illus. Discusses this phase of floors.
5164. *For Beauty, Economy and Durability.* Folder. 6 pp. Illus.
Pacific Lumber Co. of Illinois, 2060 McCormick Bldg., Chicago.
4241. *Construction Digest.* Illus. Contains data and description.
Ritter Lumber Co., W. M., Columbus, O.
4451. *Ritter Oak Flooring.* Illus. Catalog. 36 pp. Describes different kinds of oak flooring.
Wood-Mosaic Co., Inc., New Albany, Ind.
5121. *Wood-Mosaic Flooring.* Catalog of wood-carpet, strips, parquetry, tongue and groove flooring in natural wood colors.
5122. *Wood-Mosaic Floors.* Catalog. Illus. 32 pp.
Wright Rubber Products Co., Racine, Wisc.
5142. *Folder.* Illustrates their rubber tile. Shows installations.

FLOORING, COMPOSITION
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2464. *Bishopric Composition Flooring.* Description.
Everlasbestos Flooring Co., Rochester, N. Y.
3041. *The Modern Floor.* Booklet. 16 pp. Illus.
Muller, Franklyn, R., Inc., Waukegan, Ill.
4051. *Asbestone Fireproof Flooring.* 16 pp. Illus. Shows details
4052. *Instruction for preparing and laying Asbestone.* 8 pp. Illus.
Ritestone Prod. Corp., Westchester Ave., Bronx River, New York.
4441. *Ritestone Composition Flooring.* Folder. 6 pp.
Rocbond Co., Van Wert, O.
4463. *Rocbond Flooring.* Illus. Booklet. Describes properties and application for public buildings, stores, houses, etc.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletins FT 3, SP2.*

FLOORING—Industrial
Johns-Manville, Inc., 292 Madison Ave., New York.
3558. *Flooring That's Made to Fit.* Booklet. 16 pp. Illus.

FLOOR SANDERS—See Floor Surfacing Machinery

FLOOR SURFACING MACHINERY
American Floor Surfacing Machine Co., So. St. Claire St., Toledo, O.
2121. *American Universal.* Booklet. 8 pp. Illus. Describes American Universal Floor Surfacers.
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2341. *Electric Portable Sander.* Bulletin BE. Illus.
Campbell Machine Co., Inc., 39 Hayward, Wollaston, Mass.
2621. *Catalog.* Illus. 16 pp. Discusses different uses of floor surfacing machine.
Chappell & Co., Waywell, 137 No. Jackson St., Waukegan, Ill.
2691. *Little-Automatic Electric Surfacing Machine.* Folder. 4 pp. Ballbearing Electric Floor Surfacing Machine.
Electric Rotary Machine Co., 3825 W. Lake St., Chicago.
3001. *The Electric Rotary Machine.* Catalog. 28 pp. Illus. Covers entire line of floor surfacing, refinishing machinery.
Fox Supply Co., Brooklyn, Wisc.
3161. *Fox Floor Scraper No. 1.* Leaflet. Illus. Includes price.
Lincoln-Schlueter Machinery Co., 225 W. Illinois St., Chicago.
3791. *Improved Schlueter Non-Lever Floor Surfacer.* Leaflet. 2 pp. Illus. Describes electric floor surfacer.
3792. *Illustrated Letter.* 4 pp. Presents description and data.
3793. *The Marvel.* Folder. 2 pp. Illus. Describes two disc type.
3794. *3 Men and a Lincoln.* Folder. 4 pp. Illus.
Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.
3962. *Master Floor Sander.* Descriptive literature.
National Sanding Machine Co., 543-45 Vedder St., Chicago.
4111. *Super Floor Surfacing Machine.* Catalog. 16 pp. Illus. Explains 5-day trial and 5-year guarantee policy
4112. *The Lightning Electric Floor Surfacer.* Circular. 4 pp. Gives details.
Triple "A" Machine Co., 4605 Ravenswood Ave., Chicago, Ill.
4771. *Booklet.* Illus. Describes their combination scraper.

FLOOR VOIDS FOR CONCRETING—See Concrete Accessories

FOUNTAINS, ELECTRICAL
Fink Co., John, 104 Lexington Ave., New York.
5481. *The Fountain Beautiful.* Illus. Leaflets. Cover the decorative characteristics of Fink electrical, portable fountains.

FRAMES, DOOR AND WINDOW—See Doors, also Windows

FROST PREVENTATIVE—See Concrete Processes
FURNACES—See Heating Equipment
GARBAGE DESTROYERS
Kerner Incinerator Co., 1027 Chestnut St., Milwaukee, Wis.
3641. *The Sanitary Elimination of Household Waste.* Folder M-30. Describes construction and operation of *Kernerator.*

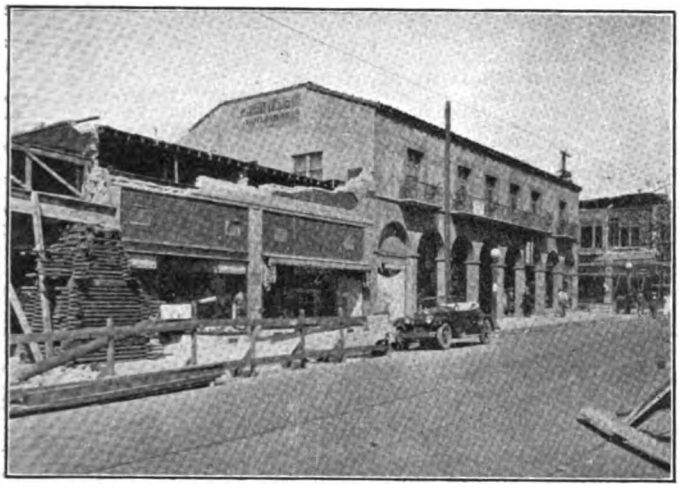
GARBAGE RECEIVERS
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2953. *Descriptive Literature.* Illus.

GAS PRODUCERS
American Heating & Lighting Co., Morenci, Mich.
2131. *Gas for Country and Suburban Homes.* 166 pp. Illus.

GLASS
American Window Glass Co., Pittsburgh, Pa.
2211. *Complete Window Glass Specifications.* Folder. 4 pp. Illus.
Bayley Co., Wm., Springfield, O.
2388. *Bayley-Springfield Wire Glass Windows.* Bulletin. Illus.

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Superior Strength and Durability of Van Guilder Double Wall Proved by Santa Barbara Earthquake!



Carrillo Building, State Street, Santa Barbara, Cal., built with Van Guilder Machines. Note Carrillo Bldg. is unharmed while next building is in ruins.

The earthquake in Santa Barbara proved without a doubt that the Van Guilder double wall is far superior to any other system of construction, both in strength and durability. Buildings of every type suffered great damage, while the Van Guilder buildings came through the earthquake in practically perfect condition.

Photo at left, The Carillo Buildings, is a good example of the almost miraculous way in which Van Guilder buildings came through unscathed, while buildings adjoining were thrown in ruins.

Mr. W. A. Dunton, engineer and builder of high standing, was appointed by the city of Santa Barbara to examine the damage done by the earthquake. We publish a letter received from Mr. Dunton, giving his opinion of the manner in which Van Guilder buildings came through the disaster.

The great strength of the Van Guilder double wall as demonstrated by this earthquake test is not by any means its greatest merit. The air space in the wall overcomes the main objection to concrete —namely, dampness. The air space, acting on the thermos bottle principle, prevents any direct absorption of water, and eliminates any chance of condensation or sweating. In addition, the air space in the wall will keep the building cooler in warm weather and warmer in the cold weather, cutting coal consumption 50%.

W. A. DUNTON JR. & CO.
GENERAL CONTRACTORS
210 TAFT BLDG.
HOLLYWOOD, CALIF.

Santa Barbara, California.

July 15,1925.

TO WHOM IT MAY CONCERN:

The following report is given on the effect of the Earthquake of June 29,1925, in Santa Barbara, California, on buildings constructed in the area under The Van Guilder system of concrete building.

After a very careful inspection of the different buildings, covered specifically in detail, my general impression of this method of construction, is in every detail, very favorable. I found a marked absence, in some cases of even slight feather cracks, which would be expected normally from settlement.

The fact that the Van Guilder buildings stood so well and came thru in practically perfect condition, when in most cases all the buildings surrounding them were either in terrible condition or totally condemned, seems to point without doubt to the fact that this method of construction, is sound not only in theory, but in one of the worst stressing conditions ever experienced.

It was my privilege to be appointed on the first committee of Engineers, for the purpose of determining the damage done, so I was given the opportunity to study the effect on the different materials in use.

Notably, among those materials and methods showing superior qualities, I mention the Van Guilder system of construction, which proved its merit beyond a doubt.

Yours for Success.

W. A. Dunton Jr.

The economy of the Van Guilder System is a well recognized fact because it is the only complete method of laying up a concrete wall without forms, and because it is so simple that anyone without the slightest building experience can build by it. Anyone interested in learning more about this natural test and the economy of the Van Guilder machines can obtain complete information promptly by writing to the

Van Guilder System Concrete Building, Inc.
15 East 40th Street New York City

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Selected List of Manufacturers' Literature

(Continued from page 154)

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* 36 pp. Illus. Takes up complete line of wire glass and ornamental sheet glass. Includes tests.
4012. *Factrolite.* Leaflet. Deals with the use of this type of glass.
Plate Glass Manufacturers of America, 1st Natl. Bank Bldg., Pittsburgh, Pa.
4321. *The Age of Plate Glass.* Booklet. 20 pp. Illus. Discusses process of plate glass manufacture and suggests uses.
4322. *Plate Glass.* Booklet. 12 pp. Illus. Describes manufacture.

GLASS, ORNAMENTAL
American 3-Way-Luxfer Prism Co., 13 St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2201. *Lux Lens Pressed Tile.* 4 pp. Illus. Describes *Lux Lens* and *Spero Lens* for store fronts and transom lights.
2202. 3 *Way-Luxfer Prisms.* 4 pp. Illus. Describes 3-Way Prismatic Glass for store fronts, transoms and upper sash.
Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* 36 pp. Illus. Takes up complete line of wire glass and ornamental sheet glass. Includes tests.
4012. *Factrolite.* Leaflet. Deals with the use of this type of glass.

GLAZING COMPOUND—See Caulking

GLUE POTS
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2347. *Descriptive Literature.* Illus.
Black Bros. Co., Inc., Mendota, Ill.
2471. *Bulletin 11-G.*. 2 pp. Illus. Describes electric glue pot.
Wallace & Co., J. D., 134-153 S. California Ave., Chicago.
4892. *Wallace Machines for Working Wood.* Illus. Catalog. 23 pp. Description of their electric glue pot.

GRILLES—See also Registers
Garden City Plating & Mfg. Co., 1430 So. Talman Ave., Chicago.
3193. *Circular.* Shows standard designs in grilles and wickets of brass, bronze and steel.
Hart & Cooley Co., Inc., New Britain, Conn.
3301. *Grilles.* Catalog. Illus. Contains complete information.
Meyers Mfg. Co., Fred J., Hamilton, O.
3981. *General Catalog.* 110 pp. Illus. Covers entire line of wire, iron, bronze and brass products.
3982. *Folder.* 4 pp. Illus. Describes new type of grille.
Tuttle & Bailey Mfg. Co., 2 W. 45th St., New York.
4801. *Catalog—No. 78, and Special Booklet on Grilles.* Includes *Ferrocraft Grilles* in plain lattice and 500 special designs;
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section devoted to their perforated metal grilles. Designs in black and white.

GRINDING MACHINERY
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus.
Huther Bros. Saw & Mfg. Co., Rochester, N. Y.
3461. *Huther Grinding Attachment.* Leaflet. 2 pp. Illus.

GUARDS, WINDOW—See Grilles, also Ornamental Iron

GUTTERS—See Leaders, etc.

GYPSUM
United States Gypsum Co., 205 W. Monroe St., Chicago.
4814. *General Catalog RB1.*

HAMMERS—See Tools

HANGERS, DOOR—See Hardware

HARDWARE
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus.
Ives Co., H. B., New Haven, Conn.
3521. *Builders' Hardware.* Folder. Illus. Describes *Ives* line of builders' hardware, window and door specialties.
Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog. No. 57.* 414 pp. Illus. Presents complete line of *Myers pumps*, door hangers, store ladders, etc.
National Brass Co., Grand Rapids, Mich.
4081. *General Catalog.* 1925 edition. Illus. Covers complete *National* line of brass hardware.
National Mfg. Co., Sterling, Ill.
4091. *National Garage Hardware.* Catalog. 32 pp. Illus. Includes working drawings of garages.
4092. *Builders' Hardware.* Catalog No. 19. 120 pp. Illus.
4093. *Ornamental Ideas.* 24 pp. Illus. Deals with hinge and butt.
Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.
4171. *General Catalog.* No. 10. Illus. Presents complete line of hardware specialties and carpenters' tools.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4424. *Woodworking Vises & Manual Training Benches.* Illus. 11 pp. Shows several types of equipment, with prices.
4429. *Booklet.* Ill. Describes big door hardware for round houses and freight houses.
Sargent & Co., New Haven, Conn.
4521. *Details to Which Standard Hardware Can Be Applied.* Booklet. 6 pp. Illustrated. Treats on construction details.
4522. *Sargent Door Checks.* Folder. Illustrated.

HARDWARE, WINDOW AND DOOR
Austral Window Co., 101 Park Ave., New York.
5561. *Austral Sash Sustainer.* Literature. Concerns device used as substitute for window weights. Sample pair, 25 cents.
Caldwell Mfg. Co., 5 Jones St., Rochester, N. Y.
2601. *Suggestions for the Present Day Architect.* Booklet. 16 pp. Illus. Gives data for *Caldwell* sash balances.
Casement Hardware Co., 250 Pelouse Bldg., Chicago.
2651. *Catalog.* Illus. Describes *Casement Window Specialties.*
Griffin Mfg. Co., Erie, Pa.
3271. *Hinges.* Book. 72 pp. Illus. Covers complete line.
3272. *Cellar Window Sets.* Folder. 4 pp. Illus.
3273. *Garage Hardware.* Folder. 4 pp. Illus.
3274. *Butt Hinges.* Folder. 6 pp. Illus.
Ives Co., H. B., New Haven, Conn.
3522. *Builders' Hardware.* Catalog No. 15. 148 pp. Illus. Covers complete line of *Ives* window and door hardware specialties.
Lyons Mfg. Co., New Haven, Conn.
5281. *Lymco Casement Window Adjusters.* Folder. 4 pp. Illus. Shows operation of brass casement window adjuster.
McCabe Hanger Mfg Co., 425-427 W. 25th St., New York.
3852. *General Catalog.* No. 24-B. 60 pp. Illus. Covers house door, garage, folding partitions, and elevator door hangers.
National Mfg. Co., Sterling, Ill.
4091. *National Garage Hardware.* Catalog. 32 pp. Illus. Includes working drawings of garages.
4092. *Builders' Hardware.* Catalog No. 19. 120 pp. Illus.
4093. *Ornamental Ideas.* 24 pp. Illus. Deals with hinge and butt.
Pullman Mfg. Co., Rochester, N. Y.
4371. 15 *Minutes Completes the Job.* Folder. 6 pp. Illus. Discusses *Pullman* spring sash balance.
4372. *Catalog No. 38.* Illus. Takes up all types of *Pullman* spring sash balance.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4421. *Distinctive Garage Door Hardware.* Illustrated Catalog.
4422. *Modern Hardware for Your Home.* Illus. 24 pp. Contains description and prices of door hangers, window hardware.
4428. *Catalog No. 40.* Lists sliding and folding partition door hardware.
4429. *Booklet.* Ill. Describes big door hardware for round houses and freight houses.
Sargent & Co., New Haven, Conn.
4521. *Details to Which Standard Hardware Can Be Applied.* Booklet. 6 pp. Illus. Treats on construction details.
4522. *Sargent Door Checks.* Folder. Illustrated.
Star Expansion Bolt Co., 147 Cedar St., New York.
5331. *Literature.* Describes *Drytins*, their expansion shield.
Weisse Mfg. Co., La Crosse, Wisc.
4901. *Literature.* Describes combination glass and screen enclosed porches and casement window hardware.
Whitney Co., Vincent, 444 Mass. Trust Bldg., Boston, Mass.
5071. *Whitco Casement Hardware.* Decriptive literature.

HEATING EQUIPMENT
American Heating & Lighting Co., Morenci, Mich.
2131. *Gas for Country and Suburban Homes.* 16 pp. Illus.
American Radiator Co., 40 W. 40th St., New York.
2161. *The Ideal Fitter.* 21st edition of hand-book. 346 pp. Illus.
2162. *Ideal Type of Heat Machines.* 48 pp. Illus. Details.
2164. *Corto.* 16 pp. Illus. Introduces new radiator.
Andrews Heating Co., 2001 Heating Bldg., Minneapolis, Minn.
2251. *Catalog.* Describes heating, plumbing equipment.
Babson Bros., Dept. A555, 19th St. and California Ave., Chicago.
5431. *Bulldog Pipeless Furnace. Book.* Illustrated. Deals with economy of *Babson* pipeless furnace.
Bovee Furnace Works, Waterloo, Iowa.
2491. *Warm Air Furnaces.* Broadside. Illus. Deals with *Bovee's* bungalow, horizontal radiator and electric fan blower types.
Burnham Boiler Corp., Irvington, N. Y.
2571. *Letters To and Fro.* Booklet. Treats of the heating question.
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Covers complete line.
Forest City Foundry & Mfg. Co., Cleveland, O.
3141. *Monarch and Niagara Warm Air Furnaces.* Catalog No. 23.
Hardin-Lavin Co., 121-131 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.
Hart & Crouse Co., Utica, N. Y.
5191. *Royal Heating Equipment.* Descriptive literature.
Hess Warming and Ventilating Co., 1207 So. Western Ave., Chicago.
3382. *Modern Furnace Heating.* Catalog. 48 pp. Illus. Describes *Hess* warm air heating systems.
B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.
Milwaukee Corrugating Co., Milwaukee, Wis.
40011. *Furnace and Stove Pipe and Fittings.* Catalog No. 25.
Richardson & Boynton Co., 260 5th Ave., New York.
5221. *Richardson Hot Water Heater.* Describes *Galvoxide Water Section* for use in connection with the *Richardson.*
5222. *Your Store.* This and another Booklet, for dealers.
Thatcher Co., 39 St. Francis St., Newark, N. J.
4762. *Catalog.* Contains information *Pipeless Furnace.*
4763. *Catalog.* Illus. Describes their *Tubular Furnace.*
Tuttle & Bailey Mfg. Co., 2 West 45th St., New York.
4802. *Tanbo Antique.* Sample of this Finish for Registers.
United States Radiator Corp., Detroit, Mich.
4831. *Capitol Boilers, Square Type.* Illus. Booklet. 25 pp. Gives description of boilers and several radiator patterns.
4832. *Capitol Boilers, Winchester Type.* Illus. Booklet. 23 pp. Describes construction and details of these boilers.

HEAT INSULATION—See Insulation

HINGES—See Hardware, Window and Door

HOISTS—See also Elevators
Brown Clutch Co., Sandusky, O.
2521. *Hoists.* Catalog. Illus. Covers all *Brown* types from hand winches to 6,000-pound capacity.
C. H. & E. Mfg. Co., Clinton & Mineral Sts., Milwaukee, Wis.
2583. *Descriptive Literature.* Bulletin. Illus.
Kimball Bros. Co., Council Bluffs, Ia.
3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.
Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus. Lists such equipment as hoists, mixers, scrapers, etc.

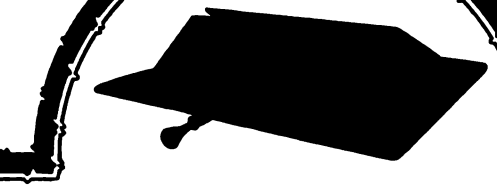
HOUSE MOVING
LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3761. *Catalog.* 34 pp. Illus. Deals with house moving appliances.

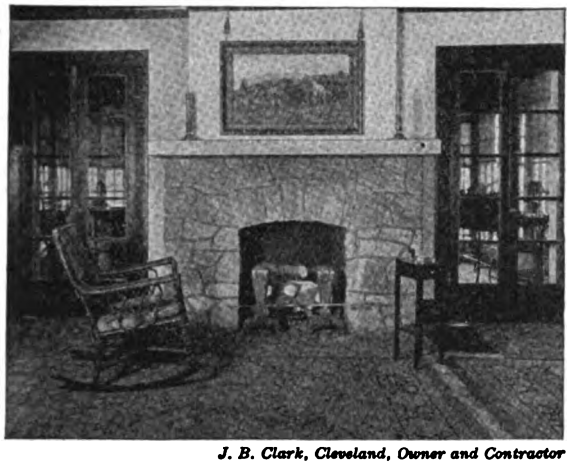
INCINERATORS—See Garbage Destroyers

INJECTERS—See Water Systems

INSULATION
Armstrong Cork and Insulation Co., 197-24th St., Pittsburgh.
5531. *Armstrong Corkboard.* Bulletins. Illustrated. Material includes structural details and methods of laying over various types of construction.
Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints and Insulating Paper.* Descriptive literature.
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2463. *Bishopric for All Time and Clime.* Booklet. Illus. 44 pp. Describes their heavy weight insulating stucco and plaster base, stucco board, sheathing board, sound deadening stucco.
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2591. *Cabot's Heat Insulating Quilt.* Literature. Illus.

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Fireplaces Built for Exacting Home Owners

EVERY builder has met that exacting customer who says, "Now in our last house the fireplace smoked something terrible. We must have this one right." Of course you promise a perfect fireplace but are you so sure that you can deliver?

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—and the ROCBOND dealer's the watch-dog between the factory and the job.

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Address.....

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Selected List of Manufacturers' Literature

(Continued from page 156)

Celotex Co., 11 W. Washington St., Chicago.
2661. *Your Home.* Catalog. Gives information about *Celotex* and deals with homes. Price 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.
Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.
Flaxlinum Insulating Co., St. Paul, Minn.
3081. *Heat Insulation for Houses.* Treating heat insulation and its relation to residence to residence construction.
3082. *For Comfort and Economy.* Booklet. 32 pp. Illus. Deals with heat insulation for the home builder.
3083. *Standard Specifications.* File 19G. Illus. Contains specifications for heat insulating and sound deadening.
Johns-Manville, Inc., 292 Madison Ave., New York.
3559. *Insulating Materials.* 22 pp. Illustrated.
Ruberoid Co., 95 Madison Ave., New York.
4481. *Ru-ber-oid Facts Worth Knowing.* Illus. Booklet. 20 pp.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4815. *Gyp-Lap Sheathing Board.* Bulletins GL3, Misc. 1.
U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool In Architecture.* Booklet. Illus.

IRONING BOARDS—See Built-In Features

JACKS, BUILDING
LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3762. *Jacks.* Descriptive literature.

JOISTS AND STUDS, PRESSED STEEL
General Fireproofing Co., Youngstown, O.
3227. *GF Steel Lumber.* Booklet. 12 pp. Illus. Deals with joists and studs for floor, roofs, and partitions.
3228. *GF Steel Joists.* Booklet. 18 pp. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Truscon Steel Co., Youngstown, O.
4798. *Truscon Steel Joists.* Catalog. Illus. 24 pp. Gives information of pressed steel beams and joists.

KITCHEN CABINETS—See Built-In Features

LABORATORY EQUIPMENT
Alberene Stone Co., 153 W. 23rd St., New York.
2035. *Descriptive Literature.* Soapstone for laboratory tables.

LADDER BRACKETS—See Brackets, Ladder

LATH, EXPANDED METAL AND WOOD—See Stucco Bases

LEADERS, FLASHINGS AND GUTTERS
Milwaukee Corrugating Co., Milwaukee, Wisc.
4004. *Milcor Rain Carrying Equipment.* Folder. 8 pp. Illus.
New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illus. Contains information regarding downspouts and gutters of *Horse Head* zinc.
Wheeling Corrugating Co., Wheeling, W. Va.
5031. *Hand Dipped Conductor Pipe.* Descriptive literature.

LEVELING RODS—See Levels and Transits

LEVELS AND TRANSITS—See Drafting and Surveying

LIFTS—See Elevators, also Hoists

LIGHTING—See Electrical Equipment

LIGHTNING RODS
Mast Lightning Rod Co., W. Milton, O.
5571. *Lightning Rods, Fixtures and Ornaments.* Catalog No. 4. Illustrated. Takes up line of copper and galvanized sectional rods.
Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Descriptive Catalog and Price List.* Shows different designs.

LIME
Kelley Island Lime and Transport Co., Cleveland, O.
3611. *Tiger Finish.* Catalog. Illus. Discusses use of *Tiger lime* in building work.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4816. *Bulletins HL1, HL2, HL3, HL4, Spec. 9.*
Woodville Lime Products Co., 622 Madison Ave., Toledo, O.
5131. *Leaflet.* Describes their brands of *Finishing Hydrated Lime.*
5133. *Quality from Stone to Finish.* Broadside

LINOLEUM—See Flooring

LOANS
Miller & Co., G. L., 30 E. 42nd St., New York.
5171. *Descriptive Literature* pertaining to the financing of building.

LUMBER AND WOODWORK
Birch Mfgs. Assn., 229 F. R. A. Bldg., Oshkosh, Wis.
2441. *Literature.* Tells of production and use of birch and kindred hardwoods. Gives information on woodwork finishing.
California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of Information Sheets California White and Sugar Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association
Chicago & Riverdale Lumber Co., Riverdale, Chicago.
5421. *Catalogs.* Illustrated. Cover entire line of doors, sash, lumber, etc.
Hartmann-Sanders Co., Eltson and Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. Price 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24 pp.
Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3812. *The Post Everlasting.* Booklet. 32 pp. Illus. Gives information on creosoted yellow pine fence posts, etc.
3813. *Poles That Resist Decay.* Booklet. 16 pp. Illus. Discusses telegraph, telephone and transmission line poles.
Morgan Sash & Door Co., Chicago, Ill.
4041. *Building With Assurance.* Catalog. 440 pp. Illus. Shows bungalows and houses (in color) with floor plans. Includes information on interior decorating, etc. Price, $2.50, refunded under special conditions.
Pacific Lumber Co. of Illinois, 2060 McCormick Bldg., Chicago.
4241. *Construction Digest.* Illus. Contains data and description.
Southern Cypress Mfg. Assn., New Orleans, La.
4611. *Descriptive literature.*
Stearns, A. T. Lumber Co., 87 Taylor St., Neponset, Boston.
4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawing of mantels, columns, doors, sash windows, blinds.
Weatherbest Stained Shingle Co., Inc., 145 Main St., North Tonawanda, N. Y.
4962. *Literature* deals with cost of *Weatherbest Stained Shingle* side walls. Includes samples showing Weatherbest color.
4963. *Book.* Newly published book, devoted to remodeling.
Western Pine Mfrs. Assn., 510-517 Yeon Bldg., Portland, Ore.
5011. *The Pondosa Story.* Booklet. Treats of development of Western Pine industry.

MAILING LISTS
Polk & Co., R. L., 325 Polk Bldg., Detroit, Mich.
4341. *Polk's Reference Book.* Contains index to mailing lists for uses of direct mail advertising.
Ross-Gould Co., 324 N. 10th St., St. Louis, Mo.
4471. *Catalog and Reference Book.* Contains index to various mailing lists for use in direct mail advertising.

MARKING DEVICES—See Branding Irons

MARQUISES
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus. Covers entire line of products.

METALS AND METAL BUILDING SPECIALTIES
American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
2181. *Reference Book. Pocket Edition.* Illus. 168 pp.
2182. *Apollo and Apollo-Keystone Galvanized Sheets.* Catalog. Illus.
2183. *Research in the Corrosion Resistance of Copper Steel.* Booklet. Illus. 24 pp. Gives technical information.
2184. *Facts Simply and Briefly Told.* Booklet. Illus. 16 pp. Gives non-technical statements on *Keystone Copper Steel.*
Bridgeport Brass Co., Bridgeport, Conn.
2511. *Seven Centuries of Brass Making.* Booklet. 77 pp. Illus.
2512. *Tested High Speed Brass Rod.* Booklet. 16 pp. Gives short treatise on manufacture of brass rod.
2513. *Data Book.* Booklet No. 16 48 pp. Illus. Tables and data.
2515. *Bridgeport Ledrite Rod-O-Graph.* Chart showing way to figure weight of brass rod to make screw machine parts.
Donley Bros. Co., 12920 Miles Ave., Chicago.
2954. *Donley Devices.* Catalog. 36 pp. Illus. Covers Donley line.
Edwards Manufacturing Co., Cincinnati, O.
2991. *Edwards Metal Roofing*, etc. Catalog. 224 pp. Illus. Covers complete line of Edwards products.
General Freproofing Co., Youngstown, O.
32213. *GF Metal Building Specialties.* Folder A. I. A. File No. 16E2. 20 pp. Illus. Includes information on bridging, etc.
Globe Ventilator Co., Dept. L., Troy, N. Y.
3261. *Globe Ventilator* and *Globe Chimney Cap.* Provide specifications on contract work.
New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illustrated. Describes their leader pipes, eaves troughs, and other zinc products.
4157. *The Roof That Is Ever New.* Folder. Illustrated. Describes their Horse Head Zinc Roofing.

MILLWORK—See Lumber and Woodwork

MINERAL WOOL—See also Insulation
U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool in Architecture.* Booklet. Illus.

MOLDS, CONCRETE—See Concrete Machinery

MORTAR BOARDS AND BOXES
Donley Bros. Co., 12920 Miles Ave., Cleveland, O.
2959. *Mortar Boxes.* Descriptive literature concerning metal boxes.

MORTAR COLORS
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus. Includes description, testimonials, and samples.
Clinton Metallic Paint Co., Clinton, N. Y.
2731. *Clinton Mortar Color.* Folder. Illus. Gives directions for using and examples of application.
2732. *Color Card.* Portrays various shades.
2733. *Color Harmony in Brickwork.* Series of 6 folders. Illus.

OIL CLOTH—See Wall Covering, also Flooring

ORNAMENTAL IRON AND BRASS
American Brass Co., Waterbury, Conn.
2091. *Anaconda Extruded Shapes.* Folder. 4 pp. Illus. Contains color plate of full size extruded shapes of brass.
Cincinnati Iron Fence Co., 3300 Spring Grove Ave., Cincinnati, O.
2721. *Iron Fence, Gates, Grilles, Window Guards.* Broadside. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.
Mast Lightning Rod Co., W. Milton, O.
5571. *Lightning Rods, Fixtures and Ornaments.* Catalog No. 4. Illus. Deals with ornaments of bronze.
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section showing their ornamental iron fence and gates.

PACKAGE RECEIVERS
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2955. *Descriptive literature.* Illus.

PAINTS, STAINS, VARNISHES AND WOOD FINISHES
Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints.* Descriptive.
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2592. *Cabot's Creosote Stains.* 16 pp. Illus. Gives description.
Certain-teed Products Corp., 100 E. 42nd St., New York.
2672. *Paints, Enamels, Varnishes, etc.* Literature. Includes samples, color cards, and prices.
General Fireproofing Co., Youngstown, O.
32214. *GF Floor Enamel.* Bulletin No. 155. 4 pp. Illus. Treats preserving and decorating of cement floors.
Glidden Co., Cleveland, O.
3251. *Ripolin Specification Book.* 12 pp. Contains specifications and instructions for application of *Ripolin.*
3252. *Why Ripolin Has an International Reputation.* Illus. 24 pp. Shows various uses of *Ripolin Enamel* paint.
Johnson & Son, S. C., Dept. BA4, Racine, Wis.
3561. *Proper Treatment for Floors, Woodwork and Furniture.*
3562. *Portfolio of Wood Panels.* 14 pp. Illus. Contains actual panels of finished woods. Includes finishing data.
New Jersey Zinc Co., 160 Front St., New York.
4152. *Mapaz Handbook.* Illus. *Mapaz No. 1*, a zinc oxide paint.
4153. *Zinc as a Paint Piament.* Pamphlet. Illus. Explains use of zinc oxide as a paint pigment.
4154. *40-40-20.* Booklet. Describes new exterior paint made from *Albalith* and XX zinc oxide with 40-40-20 formula.
Toch Bros., 110 E. 42nd St., New York.
5331. *Specifications.* 60 pp. Illus. catalog. Specifications for dampproofing, waterproofing, enameling.

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Endorsed by Builders, Architects and Owners Everywhere

Apartments, dwellings, lofts and office buildings, everywhere are now protected by A. B. C. Weatherstrips—the most efficient of all weatherstripping. Easily installed in remarkably short time. One building operation had 15,000 windows A. B. C. Weatherstripped in five weeks. Just as easy to install in old buildings—no grooving or removing of sash required.

All Bronze Construction

No Dust—No Sticking—No Rattling
No Draft

Quickly and Easily Installed

A. B. C. Weatherstrips are a proven success. Made of Spring Bronze, they follow all expansion, shrinkage or warp of sash. Always snug against the sash without the slightest possibility of sticking the window. They are real time, labor and expense savers.

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You can be assured of a satisfied clientele by adopting our methods. Write for all the information. A few territories still open.

HOFFBAUER COMPANY, Inc.

Manufacturers—Distributors—Installers

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ALL BRONZE CONSTRUCTION
ALWAYS BRINGS COMFORT



The owner of this house in Portland was wise enough to nail Cabot's Quilt under his roof rafters. His furnace heat was not wasted in melting snow. The roofs in the background, having the same exposure, were not insulated, and the wasting heat melted the snow.

Why Did the Snow Melt on All the Roofs but This One?

The answer is that the heat—that costly heat—escaped through the uninsulated roofs of these other houses and was wasted, but the roof of the house in the foreground was insulated with

Cabot's Heat-Insulating "Quilt"

and it held the heat in, just as a thermos bottle or a fireless cooker does.

Quilt insulation costs very little. It pays 33 to 50% dividends every year in saving coal, oil, gas or any other fuel. Insulate your houses—it makes pleased buyers and permanent tenants.



Insure your houses against heat-waste.

Send for a free sample of Quilt.

Samuel Cabot, Inc., Mfg. Chemists,

Boston, Mass.

342 Madison Ave., New York
5000 Bloomingdale Ave., Chicago
96 Front St., Portland, Ore.

Cabot's Creosote Stains, Stained Shingles, Old Virginia White, Double-White, Waterproof Stucco and Brick Stains, etc.

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Selected List of Manufacturers' Literature

(Continued from page 158)

Truscon Laboratories, Cor. Caniff Ave. and Grand Trunk R. R., Detroit, Mich.
4781. *Spread of Sunshine Inside.* Book. Describes methods for light-saving through use of light-reflecting enamels.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4817. *Textone.* T3. Architects' specifications for *Textone.*

PAINTS, CEMENT
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2461. *Bishopric Sunfast Finish.* Folder. Illus. Shows reproductions in color of houses with finish applied.
2462. *Color Card.* Contains sample colors of *Sunfast Finish.*
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus.
Sandusky Cement Co., Cleveland, O.
5183. *Medusa Cement Paint.* Descriptive literature.

PANELS—See Veneer, Wallboard, Panels, Wood

PANELS, WOOD
American Plywood Corp., New London, Wis.
2151. *Plywood Stock List.* Concerns use of panels for built-in work.

PARQUET FLOORING—See Flooring

PARTITIONS
Alberene Stone Co., 153 W. 23d St., New York.
2032. *Illustrated literature* on toilet partitions of soapstone.
McCabe Hanger Mfg. Co., 425-427 W. 25th St., New York.
3853. *Accordion and Folding Door Hangers.* Booklet No. 22-B.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4426. *Partitions.* Illus. Booklet. 32 pp. Shows tracks and hangers for various styles of door partitions.
4428. *Catalog No.* 40. Lists sliding and folding partition door hardware.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4818. *Pyrobar Partition and Furring Tile Book.* Bulletin PT3.
Weis, Henry, Mfg. Co., Atchison, Kan.
4981. *Weistecl Compartments.* Catalog 11. Illus. Plans, specifications and details of metal partitions and doors for toilet rooms, shower and dressing rooms, hospital articles, etc.

PERGOLAS
Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3332. *Arbors and Pergolas.* Circular D-61. 4 pp. Illus.

PIPE—See also Metals and Metal Building Specialties
American Brass Co., Waterbury, Conn.
2092. *Ten Years Hence.* Booklet. 16 pp. Illus. Discusses the problem of permanent water pipe installation in the home.
2093. *Brass Pipe for Water Service.* Publication B1, 2nd edition. Presents data for architects, engineers and contractors.
Bridgeport Brass Co., Bridgeport, Conn.
2513. *Data Book.* Booklet No. 16. 48 pp. Illus. Tables and data concerning sheet brass and brass tubing.
2514. *Brass Pipe and Pipings.* Bulletin No. 15. Illus. Contains tables, charts, etc., for design of hot-water installations.
Johnson Plumbing Supply Co., 3641-43 So. Halsted St., Chicago.
3571. *Johnson Catalog.* Illus. Covers entire line.

PIPE, CONDUCTOR
New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illus. Contains information regarding downspouts and gutters of *Horse Head* zinc.
Wheeling Corrugating Co., Wheeling, W. Va.
5031. *Hand-Dipped Conductor Pipe.* Descriptive literature.

PLANS
American Face Brick Assn., 130 N. Wells St., Chicago.
Bungalow and Small House Plans. (See listings under Brick.)
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2465. *Bishopric Plan Book.* Illus. Contains 52 suggestions for houses costing from $7,000 to $20,000. Price 50 cents.
Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.
2711. *Five Room Bungalow.* Blue print.
Common Brick Manufacturers' Assn., 2121 Title Guarantee Bldg., Cleveland, O.
City and Farm House Plans. (See listings under Brick.)
Contractors Plan Service Co., Box 115, Dayton, O.
5251. *Plan Books.* Descriptive literature.
Stevenson, R. L., 521 Paddock Bldg., Boston, Mass.
4671. *Homes of Character.* Folder. 4 pp. Illus. Describes the book, "Homes of Character," containing 150 designs of houses from $5,000 to $20,000, with floor plans, etc. Price of books, $2.00 de Luxe edition; $1.00 paper bound.
Stillwell, E. W., & Co., 270 California Bldg., Los Angeles, Cal.
4691. *All-American Homes.* 50 houses, 7 to 10 rooms. $1.00.
4692. *The New Colonials.* 50 houses, 6 to 10 rooms. $1.00.
4693. *Southwest Stucco Homes.* 75 duplexes to bungalows. $2.00.
4694. *Little Bungalows.* 75 houses, 3 to 5 rooms. $1.00.

PLASTER BASE—See Stucco Base, also Lath

PLASTER BOARD—See Wallboard

PLUMBING EQUIPMENT—See also Bathroom Fixtures
Alberene Stone Co., 153 W. 23d St., New York.
2033. *Illustrated literature* on soapstone kitchen sinks.
Andrews Heating Co., 2001 Heating Bldg., Minneapolis, Minn.
2251. *Catalog.* Describes Heating, Plumbing Equipment.
Crane Co., 836 S. Michigan Ave. Chicago.
2841. *Plumbing Suggestions for Home Builders.* 80 pp. Illus.
2842. *Plumbing Suggestions for Industrial Plants.* 44 pp. Illus.
Curtin Valve Co., A. F., Medford, Mass.
5391. *Curtin Flush Valve.* Catalog. Describes action of valve for noiseless tank filling.
Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.
Johnson Plumbing Supply Co., 3641-43 So. Halsted St., Chicago.
3571. *Johnson Catalog.* Illus. Covers entire line.
B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.
Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
3631. *Kenney Curtainless Shower.* Catalog A. Illus. Concerns several types of curtainless showers.
Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4283. *Penberthy Injectors.* Series of folders. Illus. Describe various types and models
4284. *Washing Machine Drainer.* 4 pp. Illus. Explains how product is used with faucet attachment.
4285. *Safeguard Water Gage.* 4 pp. Illus.
4281. *Automatic Cellar Drainer.* Folder. 8 pp. Illus. Gives prices.
4289. *Sales Talks.* Semi-monthly pamphlet for jobbers.

PLYWOOD—See Veneer and Veneering

PORCHES
Thomas J. Malia, 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes porch enclosures, metal weather strips and rust-proof fly screens.
Weisse Mfg. Co., La Crosse, Wis.
4991. *Literature.* Describes combination glass and screen enclosed porches.

PRESSES—See Clamps

PRISMATIC GLASS—See Glass, Ornamental

PUMPS
C. H. & E. Manufacturing Co., Clinton & Mineral Sts., Milwaukee, Wis.
2582. *Power-Driven Diaphragm, Road, and Centrifugal Pumps.* Literature. Illus.
Dayton Pump & Mfg. Co., Dayton, O.
2901. *Catalog.* Describes their pumps for light and heavy work.
Fairbanks, Morse & Co., 900 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets. Directs attention of builders and architects to home water systems.
Flint & Walling Mfg. Co., Kendallville, Ind.
3091. *Running Water Under Pressure.* Catalog No. 115. 48 pp. Illus. Deals with water systems, including pumps, tanks, etc.
Kwik-Mix Co., Port Washington, Wis.
3752. *High Lift Diaphragm Pumping Units.* Leaflet. 2 pp. Illus.
Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 57. 414 pp. Illus. Presents complete line of *Myers* pumps, door hangers, store ladders, etc.

PYROBAR GYPSUM TILE
United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletin PT3.* Architectural data, *Pyrobar* partition tile.

RADIATORS
American Radiator Co., 40 W. 40th St., New York.
2164. *"Corto, the Radiator Classic."* 16 pp. Illus. Introduces and describes addition to company's line.
2161. *The Ideal Fitter.* 21st edition of hand book. 346 pp. Illus. Contains tables and specifications concerning radiator fitting.
Johnson Plumbing Supply Co., 3641-43 So. Halsted St., Chicago.
3571. *Johnson Catalog.* Illus. Covers entire line.
United States Radiator Corp., Detroit, Mich.
4834. *Arlton Plan of U. S. Radiators.* Illustrated booklet. 23 pp. Gives details of various patterns and types.

RADIO PRODUCTS
Mast Lightning Rod Co., W. Milton, O.
5571. *Mast Radio Connectors.* Catalog No. 4. Deals with sectional form of lightning rod for aerial use.
Penberthy Injector Co., Holden Ave., and Grand Trunk Ry., Detroit, Mich.
4286. *Radio Apparatus.* Series of folders. Illus. Describe *Penberthy* head phones, loud speakers, crystal sets, etc.
Pole & Tube Works, Inc., Newark, N. J.
4331. *Flag Poles and Radio Mast.* Provide designs for contemplated installations.

RANGES—See also Heating Equipment
American Heating & Lighting Co., Morenci, Mich.
2133. *Clark Jewel Stoves.* 12 pp. Illus. For use with cold process gasoline gas.
American Stove Co., Lorain, O.
2191. *Catalog No. 94.* Illus. 70 pp. Describes *Clark Jewel Gas Stoves* with *Lorain Heat Regulator.*
2192. *Catalog No. 95.* Illus. 24 pp. *Direct Action Oil Stoves* with *Lorain High Speed Burner.*
2194. *Catalog No. 97.* Illus. 24 pp. Gives information on direct action coal ranges.
2195. *Catalog No. 117.* Illus. 42 pp. Describes *Clark Jewel* oil and gasoline stoves with *Lorain* burners.
Ohio State Stove & Mfg Co., 666 Lakeshore Drive, Chicago.
4231. *The Kab Range.* Catalog BA-3. Illus. Describes a combination of the *Packer All-Steel Kitchen Cabinet* and *Ranges.*
Standard Gas Equipment Corp., 18 E. 41st St., New York.
4621. *Vulcan Gas Ranges and Appliances.* Catalog 48. Illus. 70 pp. Describes complete line.
4622. *Vulcan Gas Equipment* for Hotels, Hospitals, Restaurants, etc.
4623. *The Vulcan Bulletin.* Monthly house organ.
4624. *How Kitchen Space Was Saved in Planning.* Practical specification folder with plans.
4625. *Oriole Gas Ranges.* Catalog. 50 pp. Illus.
Thatcher Co., 39 St. Francis St., Newark, N. J.
4764. *Catalog.* Illus. Gives information relating to their ranges.

REFRIGERATORS
Herrick Refrigerator Co., Waterloo, Ia.
3371. *Refrigerators.* 56 pp. Describes various types.
McCray Refrigerator Co., 2464 Lake St., Kendallville, Ind.
3861. *Refrigerators for Residences.* Catalog No. 95. Illus. Takes up various types and sizes with specifications.
3862. *Refrigerators for Hotels, Clubs, and Restaurants.* Catalog.
3863. *Refrigerators for Hospitals and Institutions.* Catalog No. 64.

REGISTERS
Hart & Cooley Co., Inc., New Britain, Conn.
3302. *Registers.* Catalog No. 24. Illus. Contains complete list.
Tuttle & Bailey Mfg. Co., 2 West 45th St., New York.
4802. *Tanbo Antique.* Sample of this finish for registers.

ROOF INSULATION—See Insulation

ROOFING MACHINERY
Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.
Hansen Co., L., 2303 Ward Ave., Kansas City, Mo.
3281. *Roofing Tile.* Bulletin. Explains use of Hansen machines.
3282. *Circular.* Describes roof tile making machinery.

ROOFING MATERIALS
American Insulation Co., Roberts Ave. and Stokley St., Philadelphia.
2142. *Make Your Next Roof Last.* 6 pp. Illus. Deals with *Eternit* asbestos shingles.
2143. *Building a Roof That Beautifies and Lasts.* 22 pp. Illus
American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
2186. *Better Buildings.* Catalog. 32 pp. Describes corrugated and formed sheet steel roofing and siding products.
2187. *Copper—Its Effect Upon Steel for Roofing Tin.* Catalog. Illus.

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Selected List of Manufacturers' Literature

(*Continued from page* 160)

Asbestos Shingle, Slate & Sheathing Company, Ambler, Pa.
2281. *Ambler Asbestos Shingles.* Catalog. 44 pp. Illus.
2282. *Ambler Asbesto Corrugated Roofing and Siding.* Catalog.
2284. *Engineer's Data Sheets.* 40 pp. Illus. Specifications for *Ambler* roofing and siding.

Barrell Co., Wm. L., of N. Y., Inc., 50 Leonard St., New York.
2361. *Con-ser-tex Canvas Roofing.* Describes treated fabric used for roofing, with directions for laying.

Barrett Co., 40 Rector St., New York.
2371. *Better Home for Old Houses.* Shows common type of old houses. Contains suggestions from leading architects.
2372. *Barrett Roofings for Every Purpose.* Folder.
2373. *Barrett Special Products.* Folder. Describes waterproofing materials and wood preservatives.
2374. *Barrett Giant Shingles.* Folder.
2375. *Barrett Specialties.* Booklet.
2376. *Handbook.* 96 pp. Describes products.

Beaver Products Co., Inc., Buffalo, N. Y.
2401. *Catalog.* Illus. Describes their shingles, roll roofing, etc.
2402. *Literature.* Describes plan for repair and remodeling work on time payment plan.

Beckman-Dawson Roofing Co., 11 W. Jackson Blvd., Chicago.
2411. *Shelter.* Booklet. 16 pp. Illus. Takes up development of roofing material from primitive times to today.
2412. *Asphalt Shingles.* Series of folders. Deal with tests and application of *Winthrop* tapered shingles.

Bird & Son, East Walpole, Mass.
2453. *Liquid Roof Coating.* Folder. 4 pp. Illus. Explains use as protectant. Includes description of plastic cement.

Boyle & Co., John, Inc., 112 Duane St., New York.
2051. *Prepared Canvas.* 4 pp. Illus. Concerns *Bayonne* roof and deck cloth. Includes prices.

Carey Co., Philip, 520-540 Wayne Ave., Cincinnati, O.
2641. *Before You Build.* Booklet. Discusses use and qualities of *Asfaltslate.* Sample sent.

Certain-teed Products Corp., 100 E. 42nd St., New York.
2673. *Certain-teed Roofs.* Literature. Includes color cards, prices.

Cortright Metal Roofing Co., Philadelphia, Pa.
2831. *Cortright Metal Shingles.* Booklet. 8 pp. Illus. Takes up various designs of this product.
2832. *Catalog.* Illus. Deals with metal shingle roofing.

Edwards Manufacturing Co., Cincinnati, O.
2091. *Edwards Metal Roofing, etc.* Catalog. 224 pp. Illus. Covers complete line of *Edwards* products.

Emack Co., John D., 17 E. 49th St., New York.
3021. *Olde Stonesfield Roofs.* Booklet 37A. Illus. Shows houses with *Olde Stonesfield Roofs.*
3022. *Thatchslate.* Booklet 37B. Illus.

Ford Roofing Products Co., 529 So. Franklin St., Chicago.
3131. *Cyclone Shingles.* Describes the *Ford* asphalt shingle.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.

Johns-Manville, Inc., 292 Madison Ave., New York.
35512. *Asbestos Roofing.* 4 pp. Illus. Takes up *Brooks Brand,* white top roofing.
35513. *Rocks or Rags.* 14 pp. Illus. Tells of material used in *J-M* shingles.
35515. *Ready-to-Lay Roofing.* 16 pp. Ill.

Keystone Roofing Mfg. Co., York, Pa.
3661. *A Distinctive Roof.* Booklet. Describes application of *Hexo-Diamond* slate-coated asphalt shingle. Includes sample.

Knickerbocker Slate Corporation, 153 E. 38th St., New York.
3701. *Slate.* Booklet. 16 pp. Illus. Deals with roofing and structural slate and blackboards.

Malleable Iron Fittings Co., Branford, Conn.
5311. *Nail Knowledge.* Booklet. Illus. 16 pp. Gives data on their zinc coated, rust-proof shingle and slating nails.

Milwaukee Corrugating Co., Milwaukee, Wis.
4006. *Milcor Slate Roofs.* 12 pp. Illus. *Titelock Metal Tile.*
4007. *Milcor Roofs of Permanent Beauty.* 4 pp. Illus. Shows use of Milcor Spanish Tile.

Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City, N. J.
4121. *Shingles That Last.* Illus. Offers various types of metal and asbestos shingles and roofing material.
4122. *Metal Shingles, Spanish Metal Tile, and Metal Roofing.* Literature. Illus.

Nelson Mfg. Co., B. F., Minneapolis, Minn.
4131. *Quality Roofs.* Folder. 12 pp. Illus. Deals with *Nelson Master Slab Roof.* Includes plates in color and samples.

New Jersey Zinc Co., 160 Front St., New York.
4155. *Standing Seam Horse Head Zinc Roofing.* Folder. Includes instructions for laying details, and data.
4157. *The Roof That Is Ever New.* Folder. Illustrated. Describes their Horse Head Zinc Roofing.

Richardson Co., Lockland, Cincinnati, O.
4411. *Biskalt Membrane Roofs.* 36 pp. Contains specifications for applying membrane roof over boards and concrete.
4412. *Roofs of Distinction.* Illus. catalog. 20 pp. Discusses roofing problems, weather defense, etc.
4413. *Lok-Lap Asphalt Shingles.* Illus. 10 pp. Describes laying of this shingle in various designs.
4414. *What Color for the Roof?* Illus. booklet. 19 pp. Takes up uses of *Multicrome* roofs in various styles and types.

Ruberoid Co., 95 Madison Ave., New York.
4481. *Ru-ber-oid Facts Worth Knowing.* Illus. Booklet. 20 pp.
4482. *Eight Folders.* Series of 8. Deals with strip shingles, roofing, liquid fibre-cement, roof coating, etc.

Stearns Lumber Co., A. T., 87 Taylor St., Neponset, Boston, Mass.
4642. *Cypress Lumber and Its Uses.* Booklet. Illus. 48 pp. Describes uses of cypress for exterior and interior work.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4819. *Bulletin RT27.* Architectural data. *Pyrobar* construction.
4813. *Bulletin SP2. Sheetrock Pyrofill* roof and floor construction.

Vendor Slate Co., Inc., Easton, Pa.
4861. *A Book for Architects.* Illus. Catalog. 24 pp.
4862. *The Vendor Book of Roofing Slate for Architects.* Illus. 44 pp. Contains information on slate in various architectural uses; comprises treatise on architectural roof design.

Weatherbest Stained Shingle Co., Inc., 145 Main St., North Tonawanda, N. Y.
4961. *Book.* Describes *Weatherbest Thatched Effect Roof Construction.* Also, a set of samples showing *Weatherbest* colors.
4963. *Book.* Devoted to remodeling of old homes.

Wheeling Corrugating Co., Wheeling, W. Va.
5032. *Descriptive literature.*

ROOF TRUSSES

McKeown Bros. Co., 21 E. 40th St., New York.
3871. *Clear Floor Space.* Folder. 4 pp. Takes up various types of trusses used in building construction.

ROUTERS AND CARVERS—See Woodworking Machinery

RULES—See Drafting and Surveying

SAFETY BRACKETS—See Brackets

SALAMANDERS

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
20512. *Donley Salamanders.* Leaflet. Illus.

SANDERS—See Floor Surfacing Machinery

SANDPAPERS—See Woodworking Machinery

SANITAS—See Wall Covering

SASH—See Windows, also Frames

SASH BALANCES—See Hardware, Window

SASH CORDS

Bayley Co., Wm., Springfield, O.
2387. *Bayley-Springfield Operators.* Booklet P19. 8 pp. Illus. Describes apparatus for operating continuous windows.

Samson Cordage Works, 88 Broad St., Boston, Mass.
4501. *There Is a Difference in Sash Cord.* Folder. Illus. Describes *Spot* sash cord and *Phoenix* sash cord.
4502. *Catalog.* Includes samples of sash cord.

SAW FILES AND SETTERS

Atkins & Co., E. C., Indianapolis, Ind.
2301. *Saws, Saw Tools and Machine Knives.* Catalog. 272 pp. Illus. Covers complete line of *Atkins* saws, saw filers, knives, etc.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2345. *Descriptive literature.* Illus.

Foley Saw Tool Co., 912-18 E. Lake St., Minneapolis, Minn.
3101. *Foley Automatic Saw Filer and One-Minute Rotary Saw Setting Tool.* Folder. 12 pp. Illus.

SAWS & SAW MACHINERY—See also Woodworking Machinery

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2054. *Sawing with Elbow Grease or Gasoline?* Catalog. Illus. Describes *Jiffy* Portable Saw Rig.

American Saw Mill Machinery Co., 61 Main St., Hackettstown, N. J.
2171. *Catalog No. 21.* Describes circular saws of all sizes.
2172. *General Catalog. No. 22 and Special Bulletin No. 77.* Describes sawing machinery for use in job and in shop.

Atkins & Co., E. C., Indianapolis, Ind.
2301. *Saws, Saw Tools and Machine Knives.* Catalog. 272 pp. Illus. Covers complete line of *Atkins* saws, saw filers, knives, etc.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2348. *Barker-State Saws.* Bulletin. Illustrated. Describes universal and fixed type of pedestal electric saws.

Barnes Co., W. F. & John, Rockford, Ill.
2351. *Barnes Catalog.* 38 pp. Illus. Covers line of saws, formers.
2352. *Barnes Motor-Driven and Foot-Power Woodworking Machines.* Booklet. 14 pp. Illus. Takes up various types of machines.

C. H. & E. Manufacturing Co., Clinton & Mineral Sts., Milwaukee, Wis.
2581. *Home Builder's Saw Rig.* Bulletin. 4 pp. Illus. Furnishes description, specifications and prices.

Crescent Machine Co., 206 Main St., Leetonia, O.
2861. *Crescent Saw Tables.* Catalog. 20 pp. Illus. Covers complete line of *Crescent* saw tables. Includes four additions.

DeWalt Products Co., Leola, Lancaster, Pa.
2942. *Portable Motor-Driven Saw Table.* Illus. Deals with the various characteristics of this machine

Gallmeyer & Livingston Co., Grand Rapids, Mich.
3181. *Band Saws and Saw Benches.* Illus. Contained in booklet *Union Woodworking Machines.*

Hutchinson Mfg. Co., Norristown, Pa.
3451. *Don't Let Dollars Slip Through Your Fingers.* Folder. 6 pp. Illus. Describes *Speed Marvel Worker.*
3452. *Bench Jointers.* Folder. 4 pp. Illus. Presents *Speed Marvel* 4 and 6-inch jointers.
3453. *Beaver.* Folder. 4 pp. Illus. Describes Woodworker.

Huther Bros. Saw & Mfg. Co., Rochester, N. Y.
3462. *Huther Catalog.* No. 38. Illus. Covers complete line.
3463. *Huther Pocket Size Catalog.* No. 43. 100 pp. Illus. Describes line of dado heads, milling saws, etc.

Kennedy, Ralph, 117 N. 7th St., Philadelphia, Pa.
3621. *The Kennedy Utility Saw.* Descriptive literature. Describes product for general work.

Parks Ball Bearing Machine Co., 1540-46 Knowlton St., Cincinnati, O.
4261. *Parks Woodworking Machines.* Catalog E. 42 pp. Illus. Includes details and specifications of complete line.
4262. *Cabinet Shop Special.* Bulletin. No. 7. 6 pp. Illus. Describes Parks' combination woodworking saw.
4264. *Planning Mill Special.* Bulletin. C-85. 6 pp. Illus.

Sheldon Mfg. Co., Inc., Box 25, Neahawka, Neb.
4563. *Four Leaflets and Folders.* Illus. Describes their *Model A* portable gas engine, saw rig and *Model B* portable electric

Tannewitz Works, Grand Rapids, Mich.
4741. *Variety Saw Benches.* Bulletin. Describes a machine for all classes of work.
4742. *Sawing Machinery.* Complete Catalog. Illus. Comprises bulletins of many types of machines, with specifications.

Wallace & Co., J. D., 134-158 S. California Ave., Chicago.
4891. *Wallace Bench Machines.* Illus. Loose leaf catalog. 22 pp. Describes various portable machines.
4892. *Wallace Machines for Working Wood.* Illus. Catalog. 23 pp. Lists and describes several types of woodworking equipment.
4893. *The Woodworking Pictorial.* A bulletin of suggestions.

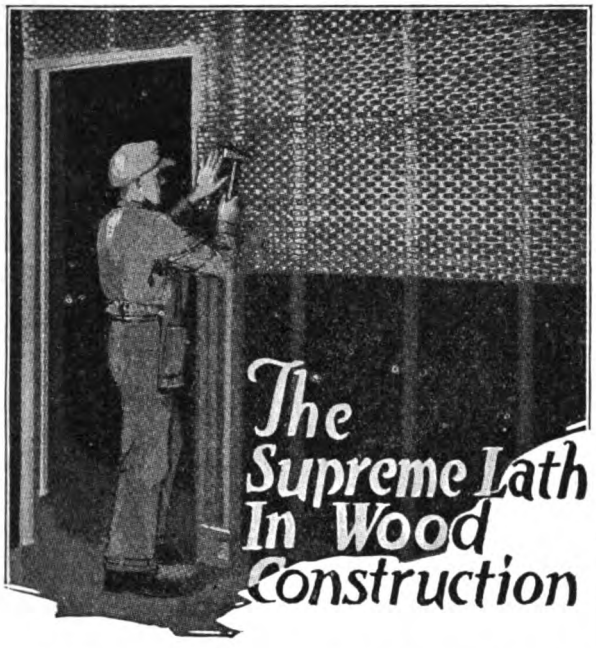
SAW RIGS—See Woodworking Machinery

SAW SETTING TOOLS—See Saw Filers and Setters

SCAFFOLDING—See also Brackets

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.
3173. *Gabriel Scaffolding.* Descriptive literature.

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The Supreme Lath In Wood Construction

IN selecting a Metal Lath to be applied over wooden supports, the superiority of Bostwick "Truss-Loop" Lath has been an established fact for more than thirty years. It perfects walls and ceilings, giving them permanent freedom from blemish as well as fire safety.

It has the pre-eminent quality of affording an even thickness of plaster and sufficient key throughout every inch of surface, including the part in contact with joist and stud.

What Bostwick "Truss-Loop" Saves

Stiffer than other laths, Bostwick is easier to handle and can be nailed in place with great rapidity. It does not need the 20 per cent overlap used in other laths, because of its stiff, true edges with "nesting" rib.

Bostwick "Truss-Loop" does not yield or spring under the plasterer's trowel, hence supports can be spaced wider—up to 24 inches if desired. It requires a quarter less plaster for a good job and wastes little or none between walls. It makes for easier and faster plastering.

Bostwick saves plaster cracks, saves fire losses, saves dirty grid markings. It means that a home can stand fifty years without need of replastering—that decorations keep their beauty a long time and that re-decoration can be accomplished without the expense of plaster patching.

Builders of honest-all-through homes are pinning their faith on Bostwick "Truss-Loop" Metal Lath. See the Bostwick Dealer or write to us for "Bostwick Economy," a catalog of construction.

THE BOSTWICK STEEL LATH CO.
NILES, OHIO

Participants in "Better Plastering" Campaign

Bostwick
TRUSS-LOOP
METAL LATH





Residence, Indianapolis, Ind.—All exterior finish, Redwood

Residence, New Philadelphia, Ohio—10-in. Redwood siding and Redwood cornice

Residence, Cadiz, Ohio—Redwood Bungalow Siding

Residence, Denver, Colo.—Redwood exterior. A. R. Widdowson, Architect

frame houses that time will not harm

BUILDERS know that well built wood houses cost a good deal less than houses of brick or stone. They are cooler in summer and warmer in winter. With a rot-resistant Redwood exterior, time does not harm a frame house.

The *natural* preservative, which kept fallen Redwoods free from decay during centuries of partial and complete burial in moist soil, protects Redwood lumber and millwork against all forms of decay.

Use Redwood for every part of the house exposed to climatic conditions or where moisture lodges, and you assure permanence—freedom from big repair and upkeep bills. You build a house that is worth more, commands a higher price and is easier to sell.

To make the houses you build better investments, use Redwood clapboards, siding and shingles, Redwood cornices, porch columns, railings, balusters and finish, Redwood foundation timbers, mudsills, mouldings, door and window frames. Use Redwood for pergolas, summer houses, garden furniture and greenhouses. Grade for grade Redwood costs little more than other woods which cannot compare with Redwood for rot resistance.

Write for TPL Co. "Construction Digest" and free sample of Redwood siding.

The Pacific Lumber Co.
Redwood

CHICAGO
2070 McCormick Bldg.
332 South Michigan Ave.

NEW YORK
932 Pershing Sq. Bldg.
100 East 42nd Street

SAN FRANCISCO
Robert Dollar Building
311 California Street

THE LARGEST MANUFACTURERS AND DISTRIBUTORS OF CALIFORNIA REDWOOD

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Selected List of Manufacturers' Literature

(Continued from page 162)

Steel Scaffolding Co., Evansville, Ind.
4051. *Catalog C.* Illus. 16 pp. Describes *Trouble-Saver* Steel Scaffolding, giving prices.

SCHOOLS
Chicago Tech College, 1038 Chicago Tech. Bldg., Chicago.
2711. *How To Read Blue Prints.* Booklet. Illus. Includes set of blue print plans.
2712. *Trial Lesson.* Includes blue prints and description of home-study course in architectural drafting.

SCRAPERS
Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus. Lists such equipment as scrapers, mixers, barrows, hoists, etc.

SCREEN MANUFACTURERS' MACHINERY
DeWalt Products Co., Leola, Lancaster, Pa.
2943. *DeWalt Machinery.* Folder. 4 pp. Illus. Takes up application of this machine for screen manufacture.
Markwell Mfg. Co., 176 Franklin St., New York.
3941. *Markwell Catalog.* 30 pp. Illus. Describes various appliances for the sash and screen maker.
3942. *Screens for Profit.* Folder. 4 pp. Illus.

SCREENS
American Brass Co., Waterbury, Conn.
2094. *Screens that Meet the Test.* Booklet. 16 pp. Illus. Describes development of screening from historical angle. Discusses use of *Antique* or *Golden Bronze* wire screens.
American Wire Fabrics Co., 208 S. La Salle St., Chicago.
2221. *Catalog of Screen Wire Cloth.* Illus. Deals with line of black enamel, galvanized, American bronze screen cloth.
2222. *Monel Metal Screen.* Folder. 8 pp. Illus. Describes tests made on monel metal screen cloth. Includes specifications.
2223. *Wire Cloth Table.* Shows number sq. ft. per roll and sq. ft. in various widths and lengths.
Dennis & Co., W. J., 2110 W. Lake St., Chicago.
2912. *Dennis Screen Moulding.* Describes product for use in the making of screens.
Gilbert & Bennet Mfg. Co., 937-9 1st Nat'l Bank Bldg., Chicago.
3241. *Pearl Wire Cloth.* Contains description and samples.
Malia, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes rust-proof fly screens, porch enclosures and metal weather strips.
New Jersey Wire Cloth Co., Trenton, N. J.
4141. *A Matter of Health and Comfort.* Booklet. Illus. Discusses use of *Jersey* copper insect screen cloth. Includes samples.
Wickwire Spencer Steel Corp., Worcester, Mass.
5082. *Hardware Products.* Devotes section to screen cloth.

SEWAGE DISPOSAL—See Plumbing Equipment

SHADES AND SHADE ROLLERS
Edstrom, Wetmore & Henderson, Warren, Pa.
2981. *Automatic Stop Shade Rollers.* Descriptive literature.

SHAPERS—See Woodworking Machinery

SHAFTS
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2346. *Flexible Shafts.* Bulletin. Illus.

SHEATHING—See Insulation, also Stucco Base

SHEATHING PAPER—See Building Paper

SHELVES
Garden City Plating & Mfg. Co., 1430 S. Talman Ave., Chicago.
3191. *Adjustable Shelves.* Literature. Includes samples.

SHINGLES—See Roofing Materials

SHINGLE STAINS—See Paints, Stains, Varnishes.

SHOWERS—See also Plumbing, also Bathroom Fixtures.
Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
3631. *Kenney Curtainless Shower.* Catalog A. Illus. Concerns several types of curtainless showers.

SIDING—See Lumber, also Roofing Materials

SKYLIGHTS
American 3-Way Luxifer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2203. *3-Way Ventilating Skylights.* 4 pp. Illus. Treats with product designed for public garages, laundries, etc.
2204. *Steelead.* Describes puttyless, metal skylight construction.
2205. *3-Way Reinforced Concrete.* Discusses concrete and glass.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus. Covers entire line of pdoructs.
Milwaukee Corrugating Co., Milwaukee, Wis.
4008. *Milcor Guide.* Illus. Explains details of *Puttyless Skylight.*

SLATE—See also Roofing Materials
Emack Co., John D., 17 E. 49th St., New York.
3022. *Thatchslate.* Booklet 37B. Illus.
3023. *Olde Stonesfield Flagging, Walks, Terraces and Coping.* Booklet 37C. Illus.
Knickerbocker Slate Corporation, 153 E. 38th St., New York.
3701. *Slate.* Booklet. 16 pp. Illus. Deals with roofing and structural slate and blackboards.
Structural Slate Co., Pen Argyl, Pa.
4701. *Structural Service Data and Standards.* Takes up properties, uses and specifications of structural products.
4702. *Plumbing Catalog.* Deals with slate for the contractor.
Vendor Slate Co., Inc., Easton, Pa.
4861. *A Book for Architects.* Illus. Catalog 24 pp.
4862. *The Vendor Book of Roofing Slate for Architects.* Illus. 44 pp. Contains information on slate in various uses.

SOUND DEADENING MATERIAL—See Insulation

SQUARES—See Tools

STAIR TREADS
Alberene Stone Co., 153 W. 23d St., New York.
2064. *Illustrated Literature* on stair treads of soapstone.
Norton Co., Worcester, Mass.
4211. *Norton Floors.* Booklet. 24 pp. Describes the several types of *Alundum* floor with reference to their applications.
4212. *Norton Floors.* Monthly House Organ. 4 pp. Illus. Deals with installation of Norton *Alundum* floors.
4213. *Alundum Safety Tile.* Booklet. 38 pp. Presents one type.
Safety Stair Tread Co., Wooster, O.
4491. *Wooster Safe-Groove Stair Treads.* Catalog. Describes these treads and thresholds and security nosing made of white brass, brass and black steel.
4492. *The Wear on Stairs.* Catalog. Deals with methods of repairing worn stairs.
4493. *Stair Nosing, Wooster Security Nosing.* Catalog. Describes method of protecting edges of various flooring materials.
Universal Safety Stair Tread Co., 40 Court St., Boston.
5381. *Universal Safety Tread.* Booklet. Discusses installations on cement, metal or wood steps.
Wright Rubber Products Co., Racine, Wis.
5141. *Illustrated Folder.* Describes their rubber stair tread.

STAIRWAYS, MOVABLE
Bessler Movable Stairway Co., Akron, O., or 103 Park Ave., New York.
2431. *Don't You Wish You Had More Room?* Bulletin. 8 pp. Illus. Explains use of disappearing stairway to attic.
Disappearing Stair Co., Cleveland, O.
5601. *Literature.* Shows convenience features of movable stairway installations.
Farley & Loetscher Mfg. Co., Dubuque, Ia.
5201. *Presto Sliding Stairs.* Descriptive literature. Includes prices.

STANDARD BUILDINGS—See Building Construction

STEAMSHIP LINES
Furness Bermuda Line, 34 Whitehall St., New York.
5411. *Circulars.* Illustrated. Take up various details concerning passage, etc., to Bermuda.

STEEL JOISTS—See Joists

STORE FRONTS
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Kawneer Co., 225 Front St., Niles, Mich.
3596. *Contractors' Design Book.* 128 pp. Illus. Presents selected list of store front designs.
3597. *Details Kawneer Solid Copper Store Front Construction.* Catalog L, 1925 edition. 32 pp. Illus. Comprises a treatise on installation of Kawneer solid copper store front construction. Includes sectional and detail views of various members.
Zouri Drawn Metals Co., 1608 East End Ave., Chicago Heights, Ill.
5151. *Getting People In.* Booklet. Illus. Gives plans and diagrams. Shows methods of arranging window display space.
5152. *Zouri Store Fronts.* Booklet. Illus. 31 pp. Shows various types of store fronts. Includes detail drawings.

STOVES AND RANGES—See Ranges, Heating Equipment

STUCCO—See also Cement
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2463. *Bishopric for All Time and Clime.* Booklet. Illus. 44 pp.
2461. *Bishopric Lunfast Finish.* Folder. Illus.
2467. *Old Colony.* Booklet. Describes this stucco.
Muller, Franklyn R., Inc., Waukegan, Ill.
4053. *Asbestone.* 16 pp. Illus. Shows details and pictures of installation of *Asbestone* magnesite stucco.
4054. *Instructions for applying Asbestone stucco.* 8 pp. Illus.
Lehigh Portland Cement Co., 30 E. 42nd St., New York.
3771. *Build the Castle of Your Dreams.* 32 pp. Deals with concrete home construction.
3772. *Permanent Satisfaction in Your Building.* Illus. Book. 48 pp. Treats of fire-safe farm construction.
3773. *The Lehigh Magazine.* New House Monthly.
Master Builders Co., Cleveland, O.
5321. *Booklet.* Describes *Mastertex,* their water-proofing paint for stucco, concrete, etc.
Portland Cement Assn., 111 W. Washington St., Chicago.
4353. *Portland Cement Stucco.* Bulletin. Illus. Contains data on materials, proportion, etc., and discusses approved practices.
Ritestone Prod. Corp., Westchester Ave. and Bronx River, New York.
4442. *Ritestone Stucco.* Catalog. Illus. Explains application. Gives typical example of *Ritestone* stuccoed homes.
Rocbond Co., Van Wert, O.
4461. *Better Homes.* Illus. Booklet. Describes properties of Rocbond Stucco for exterior surfaces.
4462. *Homey Homes.* Illus. Booklet. 20 pp. Shows houses of different kinds in which Rocbond Stucco has been used.
United States Gypsum Co., 205 W. Monroe St., Chicago.
48115. *Oriental Stucco Handbook, OS3.* Illus. in color and sepia.
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.

STUCCO AND PLASTER BASES
Armstrong Cork & Insulation Co., 197 24th St., Pittsburgh.
5531. *Armstrong Corkboard.* Bulletins. Illus. Material includes structural details and method of laying as a plaster base.
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2468. *Bishopric for All Time and Clime.* Catalog. Illus. 42 pp. Describes use of their stucco and plaster base and sheathing.
Bostwick Steel Lath Co., Niles, O.
2481. *Bostwick Economy.* Literature on Bostwick Metal Laths.
Celotex Company, 111 W. Washington St., Chicago.
2661. *Your Home.* Catalog. Gives information concerning *Celotex,* and deals with homes. Price, 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.
Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.
Flaxlinum Insulating Co., St. Paul, Minn.
3083. *Standard Specifications.* File 19G. Illus. Contains specifications for insulating with Flax-li-num Keyboard.
General Fireproofing Co., Youngstown, O.
3229. *Herringbone Rigid Metal Lath.* Catalog. 48 pp. Illus.
32211. *Trussit.* Booklet. 16 pp. Illus. Also folder. 16 pp. Illus. Describes reinforcement for partitions and curtain walls.
32212. *GF Diamond Rib Metal Lath.* Booklet. 8 pp. Illus.
Milwaukee Corrugating Co., Milwaukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.
New Jersey Wire Cloth Co., Trenton, N. J.
4142. *Roebling Wire Lath.* Catalog. 30 pp. Illus. Deals with product and its application as a plaster base.
NorthWestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4201. *NorthWestern.* General Catalog. 16 pp. Illus. Covers complete line of *NorthWestern* products including *Kno-Burn* metal lath, *Longspan Plasta-Saver, Nemco* channels.
4202. *Home Building.* Booklet. 32 pp. Illus. Brings out details of home construction and interior finish, suggests built-in conveniences, means of preventing plaster cracks, etc.

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Time to get reroofing contracts

Fall reroofing jobs are being settled now. What are you recommending? You can't beat Winthrops. Nothing equals these tapered, heavy butt asphalt shingles for going over old roofs.

The thick butts lie flat and snug against the roof, proof against wind, rain, snow and even falling sparks and brands.

the Big Butt Shingle

Winthrop
Tapered Asphalt Shingles

The thick butts are built up of extra coats of everlasting asphalt. Winthrops can not rust, rot, crack or split.

The colors of Winthrops are permanent. They are due to the non-fading crushed slate surfaces, firmly anchored in the everlasting asphalt.

In solid colors or mottled effect a Winthrop roof is beautiful with the thick butts casting the attractive shadow lines of the old fashioned wood shingle.

On new roofs or old, Winthrops with their double thickness where exposed to weather insure double wear.

LUMBER DEALERS

carry Winthrops, but upon request we will send you a sample shingle, free. Write today. Use it for getting fall reroofing jobs.

BECKMAN-DAWSON ROOFING COMPANY

830 F. C. Austin Building
111 West Jackson Boulevard
CHICAGO, ILLINOIS

Also Manufactured by

LOCKPORT PAPER CO., LOCKPORT, N. Y.

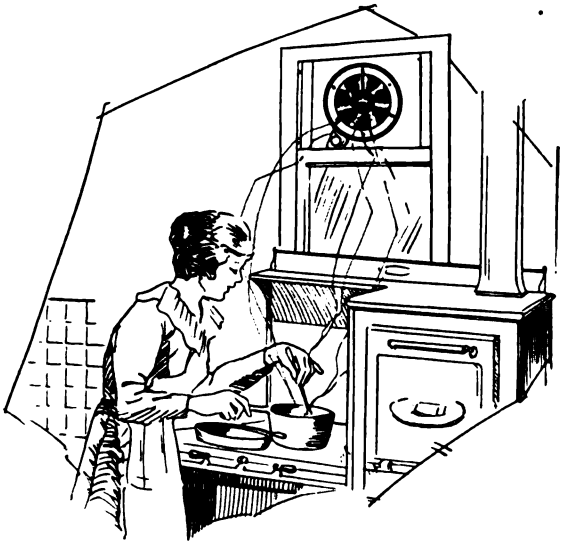
Builders—Attention!

Here's a real selling feature that costs little!

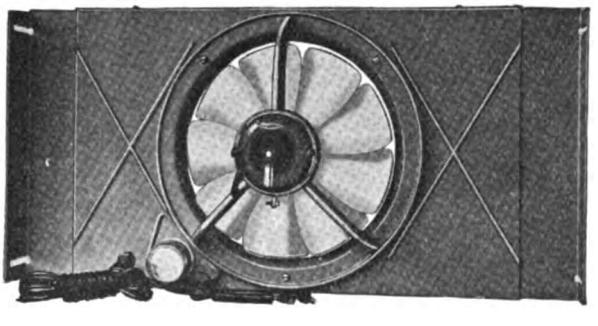
If you build homes to sell, we have a selling feature that will move them.

Builders are installing the "Buffalo Breezo" fan in kitchen windows. They tell us it helps sell their houses because its something the other fellow hasn't got.

It goes in the most important part of the house—the kitchen; it's installed by anyone in ten minutes, and it makes a real hit with women. Furthermore—the outfit is **priced right**—it costs you less than many of the less essential things you are putting in your houses.



"Buffalo Breezo" is made especially for kitchen ventilation. It has an all steel frame, with adjustable panel for fitting the window. Installed with four screws which we furnish. It can be put up or removed in a jiffy. It is absolutely guaranteed to remove all cooking odors, steam, vapor, frames or heated air from the kitchen. It keeps these disagreeable odors, and greasy smoke from the rest of the house, and saves the wife from fatigue.



In apartment houses, a "Buffalo Breezo" in every kitchen makes the whole building cooler and cleaner to live in.

The outfit is made by one of the oldest manufacturers of fans in this country and is a quality product in every way.

Write Now For Prices

Buffalo Forge Company

476 BROADWAY **BUFFALO, N. Y.**

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Selected List of Manufacturers' Literature

(Continued from page 164)

4204. *Better Plastering.* Booklet. 12 pp. Illus. Deals with interior plastering. Shows plates of several different types.

Sykes Metal Lath Co., Niles, O.

4731. *Metal Lath for All Purposes.* Illus. Booklet. 20 pp. Contains information pertaining to their metal lath

4732. *Catalog and Handbook.* Illus. 32 pp. Deals with metal lath and steel building specialties, with specifications and details

Truscon Steel Co., Youngstown, O.

4799. *Hy-Rib and Metal Lath.* Catalog. Illus. 64 pp. Gives properties of laths, specifications, special uses and views.

United States Gypsum Co., 205 W. Monroe St., Chicago.

48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.

Wheeling Corrugating Co., Wheeling, W. Va.

5032. Descriptive literature.

Wickwire Spencer Steel Corp., Worcester, Mass.

5081. *Bulletin.* Illus Includes specifications for using wire lath.

SURVEYORS' INSTRUMENTS—See Drafting and Surveying

SUSPENDED CEILING—See Ceilings, Metal

TABLES—See Built-In Features

TAMPERS, HAND AND POWER—See Cement Tools

TAPES, MEASURING—See Drafting and Surveying

TELEPHONES—See also Electrical Equipment

Western Electric Co., New York.

5001. *Inter-Phones Systems.* Descriptive literature.

THERMOSTATS—See Heating Equipment

TILE MANUFACTURE

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.

2971. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.

2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery, giving facts and figures.

TILE ROOFING—See Roofing Materials

TILE, STEEL

General Fireproofing Co., Youngstown, O.

32215. *GF Steel Tile.* Catalog. 32 pp. Illus. Contains description and specifications. Also folder. 12 pp. Illus.

Milwaukee Corrugating Co., Milwukee, Wisc.

4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.

TIME BOOKS

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.

2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line of *Aloe* levels, transits and drafting material.

TOILET PARTITIONS—See Partitions

TOOLS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.

2344. *Hammers.* Bulletin. Illus.

Combination Blow Torch Mfg. Co., 2805 W. Van Buren St., Chicago.

5591. *Literature.* Describes combination blow torch soldering and branding iron.

Everhot Manufacturing Co., Maywood, Ill.

3033. *Everhot Soldering Irons.* Descriptive literature.

3034. *Everhot Hammers.* Descriptive literature.

3036. *Everhot Shovels.* Descriptive literature.

Koehring Co., 31st and Concordia Sts., Milwaukee, Wis.

3712. *Koehring Booklet.* Lists complete line of products.

Mack Tool Co., Inc., W. Commercial St., East Rochester, N. Y.

3881. *Catalog and Price List.* 20 pp. Illus. Contains complete line of *D. R. Burton* planes, gouges, hatchets, etc.

Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.

4171. *General Catalog.* No. 10. Illus. Presents complete line of hardware specialties and carpenters' tools.

Progressive Mfg. Co., Torrington, Conn.

4361. *Forstner Bits.* Booklet. Illus. Contains specifications, prices, and directions for use.

Sargent & Co., New Haven, Conn.

4523. *Sargent Standard Steel Squares.* Booklet. 32 pp. Illus. Contains specifications and information.

4524. *Sargent Planes* Catalog. 64 pp. Illus. Includes specifications and prices on complete line of planes.

Swan Co., James, Seymour, Conn.

4711. *Catalog.* 104 pp. Describes *Premium Mechanic's Tools.*

4712. *Booklet.* Illus. 32 pp. Lists and briefly describes tools.

Star Expansion Bolt Co., 147 Cedar St., New York.

5331. *Literature.* Describes *Dryvins,* their expansion shield.

White Co., L. & I. J., Buffalo, N. Y.

5061. *Catalog 19A.* Describes carpenters' tools.

5062. *Catalog 20B.* Describes coopers' tools.

5063. *Several Folders.* Deal with high speed knives.

TOOLS, AIR

Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.

2791. *Berg Electric Air Cushion Hammer.* 6 pp. Illus. Deals with concrete surfacing and finishing apparatus.

TOOLS, EDGE

Atkins & Co., E. C., Indianapolis, Ind.

2301. *Saws, Saw Tools and Machine Knives.* Catalog. 272 pp. Illus. Covers complete line of Atkins saws, saw files, knives.

Everhot Manufacturing Co., Maywood, Ill.

3035. *Everhot Hatchets.* Descriptive literature.

Fox Supply Co., Brooklyn, Wis.

3164. *Scraping Knives.* Descriptive literature. Describes floor scraping knives, furnishing tools, and hand scrapers.

Mack Tool Co., Inc., W. Commercial St., East Rochester, N. Y.

3881. *Catalog and Price List.* 20 pp. Illus. Contains complete line of D. R. Barton planes, gouges, hatchets, etc.

Swan Co., James, Seymour, Conn.

4711. *Catalog.* 104 pp. Describes *Premium Mechanic's Tools.*

4712. *Booklet.* Illus. 32 pp. Lists and briefly describes tools.

White Co., L. & I. J., Buffalo, N. Y.

5061. *Catalog 19A.* Describes carpenters' tools.

5062. *Catalog 20B.* Describes coopers' tools.

5063. *Several Folders.* Deal with high speed knives.

TOOLS, MARKING—See Marking Devices

TRAPS—Steam and Radiator

Johns-Manville, Inc., 292 Madison Ave., New York.

35516. *Steam Traps.* Catalog. 8 pp. Illus. Includes specifications.

TRANSITS—See Drafting and Surveying

TREADS, STAIR—See Stair Treads

TRIANGLES—See Drafting Materials

TRUCKS—MOTOR

Ford Motor Co., Detroit, Mich.

3121. *Power & Haulage.* Monthly Magazine. Contains information on *Fordson* tractor and *Ford* truck.

3122. *The Fordson.* Magazine. Includes occasional stories on trucks on the farm.

General Motors Truck Co., Pontiac, Mich.

3231. *G. M. C. Trucks 1 to 15 tons Capacity.* Catalog. 48 pp. Illus. Covers complete line.

TRUCKS, MOTOR—SUPPLIES

Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.

4287. *Ball & Ball Carburetor.* 8 pp. Illus. Shows details of Model SV-26.

4288. *Lubricating Devices.* 2 folders. Describe priming caps.

Warford Corp., 41 Whitehall St., New York.

4911. *Folder.* Describes and illustrates their auxiliary transmission for Ford Trucks.

4912. *Warford Selection Type Auxiliary Transmission for Ford Trucks and Pleasure Cars.* Folder.

TRUSSES—See Roof Trusses

VALVES—See also Plumbing Equipment

Crane Co., 836 S. Michigan Ave., Chicago.

2844. *Steam Pocket Catalog.* No. 50. 775 pp. Illus. Contains complete description of Crane line.

Johnson Plumbing Supply Co., 3641-43 So. Halsted St., Chicago.

3571. *Johnson Catalog.* Illus. Covers entire line of plumbing and bathroom equipment, boilers, valves, and radiators.

VAULT LIGHTS

American 3 Way-Luxfer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.

2207. *Daylight.* 16-pp. 3 Way-Luxifer armored sidewalk lights.

International Steel & Iron Co., Evansville, Ind.

3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

VENEER AND VENEERING

American Plywood Corp., New London, Wis.

2151. *Plywood Stock List.* Concerns panels for built-in work.

Wheeler, Osgood Co., Tacoma, Wash.

5023. *Leaflet.* Describes *Laminex* panels. Explains waterproof properties.

5021. *Laminex Book.* For architects and the building trade.

VENTILATION AND VENTILATORS

Globe Ventilator Co., Dept. L, Troy, N. Y.

3261. *Globe Ventilator* and *Globe Chimney Cap.* Provide specifications on contract work.

Ilg Electric Ventilating Co., 2850 N. Crawford Ave., Chicago.

5521. *Ventilating Through the Kitchen.* Leaflet. Contains data on use and installation of electric exhaust fans for small homes.

Milwaukee Corrugating Co., Milwaukee, Wis.

4009. *Nu-Air and Milwaukee Stationary Ventilators.* 16 pp. Illus.

Washburne & Co., E. G., 207 Fulton St., New York.

4932. *Descriptive Price List of Rotary Exhaust Ventilators.*

WALLBOARD

Asbestos Shingle, Slate & Sheathing Co., Ambler, Pa.

2285. *Descriptive Matter.* Illus. Deals with *Linabestos,* and asbestos wall board.

Beaver Products Co., Inc., Buffalo, N. Y.

2403. *Folder.* Illus. Describes uses and methods of handling *Beaver Board.*

United States Gypsum Co., 205 W. Monroe St., Chicago.

48111. *Gyplath.* Catalogue Ga.

48112. *Architects' Specifications for Gyplath.*

48117. *Sheetrock Catalog.* Bulletin WB61.

48118. *Sheetrock Tile Board.* Folder WB61.

Upson Co., Lockport, N. Y.

4851. *Walls & Ceilings of Enduring Charm.* Illus. Booklet. 16 pp. Describes qualities of Upson Board.

4852. *The Snow White Lining.* Illustrated catalog. 16 pp. Describes Upson Fibre Tile used in bathrooms and kitchens.

4853. *4-page Folder.* Contains description of the Upson Blue Book of working plans and sketches for interior finishing with Upson Board. Blue Book is distributed to lumber dealers for use by builders. Single blue prints, price 25 cents.

4854. *The Upsonizer.* March-April issue. 24 pp. Illus. Deals with the merchandising problems of the builder.

WALL COVERING

Morene Products Co., Inc., 241 W. 28th St., New York.

5371. *Morene, the Wall Finish Distinctive; a Portland Cement Product—Atlas White.* Brochure. Illustrated. Shows examples of *Morene* used for ceiling and mural decorations.

Standard Textile Products Co., 320 Broadway, N. Y.

4631. *Book of Samples in Color.* Shows design and texture of Sanitas, their sanitary cloth wall coverings.

WATER GAUGES—See Plumbing Equipment

WATER HEATER

American Heating & Lighting Co., Morenci, Mich.

2132. *How to Install a Water Heater.* 8 pp. Illus. Deals with cold process gasoline gas heaters.

Crane Co., 836 S. Michigan Ave., Chicago.

2843. *Crane Water Heater.* Booklet. Illus.

Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.

3581. *Catalog.* Covers plumbing, heating, and pneumatic waterworks fields.

Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.

4282. *Noiseless Water Heater.* 4 pp. Illus. Includes specifications.

Richardson & Boynton Co., 260 5th Ave., New York.

5221. *Richardson Hot Water Heater. Describes Galvoxide Water Section* for use in connection with the *Richardson.*

5222. *Your Store.* This and another Booklet, for dealers.

Standard Gas Equipment Corp., 18-22 E. 41st St., New York.

4626. *Vulcan Gas Water Heater.* Booklet. Illus.

WATERPROOFING—See also Dampproofing

Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.

2413. *Dampproofing and Waterproofing Points and Insulating Paper.*

Cabot, Samuel, Inc., 141 Milk St., Boston, Mass.

2594. *Cabot's Waterproofing Specialties.* Booklet. 14 pp. Illus. Covers damproofing, clear brick waterproofing, and clear cement waterproofing.

Consumers' Asbestos Corp., 80 Wall St., New York.

2811. *Damp-Proofe.* Descriptive literature. Illustrated. Concerns use of products for cellar work.

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Selected List of Manufacturers' Literature

(*Continued from page 166*)

Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.
General Fireproofing Co., Youngstown, O.
32216. *The Waterproofing Handbook.* Catalog. 72 pp. Illus Covers complete line of GF waterproofing materials.
Johns-Manville, Inc., 292 Madison Ave., New York.
35517. *Aquadom.* Folder. 4 pp. Illus. Explains use.
Master Builders Co., Cleveland, O.
5321. *Booklet.* Describes *Mastertex,* their waterproofing paint for stucco, concrete, etc.
Morene Products Co., Inc., 241 W. 28th St., New York.
5373. *Folder.* Describes *Kemisol,* waterproofing and preservative for stone, brick, concrete and cement surfaces above ground.
Sandusky Cement Co., Cleveland, O.
5181. *Medusa Waterproofing.* Literature. Gives specifications and tables on *Medusa Waterproofing* in powder and paste forms.
Truscon Laboratories, Caniff Ave. and Grand Trunk R. R., Detroit, Mich.
4782. *Science and Practice of Integral Waterproofing.* Illus. 33 pp. Contains specifications for waterproofing mass, concrete, stucco and cement plaster coat.
4783. *Technical Pamphlet No. 8.* Booklet. 28 pp. Discusses concrete waterproofing.

WATER SYSTEMS—See also Plumbing Equipment
Fairbanks, Morse & Co., 909 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets. Directs attention of builders and architects to home water systems.
Flint & Walling Mfg. Co., Kendallville, Ind.
3091. *Running Water Under Pressure.* Catalog No. 115. 48 pp. Illus. Deals with water systems including pumps, tanks, etc.
Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing and heating equipment. 50 cents.
Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, and pneumatic waterworks fields.
Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 57. 414 pp. Illus. Presents complete line of Myers pumps, door hangers, store ladders, etc.

WEATHER STRIPS
Allmetal Weatherstrip Co., 229 West Illinois St., Chicago.
2041. *Circular.* 6 pp. Illus. Describes uses for hotels, residences.
Burrowes Weatherstrip Co., 1930 S. 52nd St., Chicago.
5491. *Do Your Windows Hold Out the Cold?* 4 pp. Illustrated. Deals with heat waste through uninsulated windows.
5492. *Dealer Proposition.* Information on open territories.
Ceco Weatherstrip Co., 1926 So. 52nd St., Chicago.
2851. *Ceco Metal Weatherstrips.* Catalog. Illus. 16 pp. Describes these weatherstrips and their installation.
Chamberlin Metal Weatherstrip Co., Inc., Detroit, Mich.
5551. *Chamberlin Metal Weatherstrip Details.* Catalog. Illustrated. Contains a summary of details pertaining to construction.
Dennis & Co., W. J., 210 W. Lake St., Chicago.
2911. *D. D. C. Spring Bronze Weatherstrip.* Includes sample, description and method of installation.
Diamond Metal Weatherstrip Co., 412 Spruce St., Columbus, O.
5621. *Diamond Weatherstrip.* Takes up details and installation of metal weatherstrip.
Federal Metal Weather Strip Co., 1238-50 Fullerton Ave. Chicago, Ill.
3071. *Does it Pay?* Folder. 4 pp. Illus. Concerns the question of using weather strip.
3072. *Window and Door Equipment.* Folder. 4 pp. Illus. Includes detail drawings.
Hoffbauer Co., Inc., 101 Park Ave., New York.
3411. *Metal Weather Strips.* Folder. 4 pp. Illus.
Malla, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes metal weather strips, porch enclosures and rust-proof fly screens.
Victor Parting Bead Co., Dept. B, Reading, Pa.
4871. *How To Install Victor Parting Beads.* Booklet. Illus. with photographs and detail drawings.
4872. *Through the Closed Window.* Booklet. Illus. Discusses weather protection. Illustrates their parting bead.

WEATHER VANES
Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Copper Weather Vanes.* Illus. Catalog. 32 pp. Shows different designs of weather vanes and lightning rods.

WINDOWS, METAL
Bayley Co., Wm., Springfield, O.
2382. *Bayley-Springfield Steel Fire Windows.* Bulletin F21. 4 pp. Illus. Includes discussion of tests made on product.
2383. *Bayley-Springfield Steel Office and Schoolhouse Windows.* Bulletin AA21. 4 pp. Illus. Details and description.
2385. *Bayley-Springfield Steel Windows for Basements.* 4 pp. Illus. Ventilators.
2386. *Bayley-Springfield Projected Ventilators, Steel Windows.* 4 pp. Illus. Details and description.
Crittal Casement Window Co., 10957 Hearns Ave., Detroit, Mich.
2871. *Standard Steel Casements.* Catalog. 2-24. Illus. Includes data and details concerning *Crittal* copper bearing steel casement windows for residences, clubs, etc.
2872. *Cottage Casements.* Pamphlet. Illus. Deals with copper bearing steel window designed for less prominent positions.
Detroit Steel Products Co., 2252 E. Grand Blvd., Detroit, Mich.
2921. *Fenestra Casement Windows.* 20 pp. Illus. Describe steel casement windows with details and specifications.
2922. *Fenestra Basement Windows.* Booklet. 16 pp. Gives description, specifications and details.
2923. *Fenestra Reversible Ventilator Windows.* 20 pp. Illus. Shows design of new model.
2924. *Fenestra Counter-Balanced Windows.* Catalog. 111 pp. Illus.
2925. *Fenestra Industrial Window Walls.* Catalog. 111 pp. Illus.
2926. *Fenestra Steel Windows for Schools.* Booklet. 32 pages, illustrated. Describes types and sizes of school windows.
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2956. *Donley Basement Windows.* 16 pp. Illus. Gives details.
Hope & Sons, Ltd., Henry, 103 Park Ave., New York.
3431. *Hope's Casements.* Circular. Illus. Covers line of standard size and type steel casements.
Lupton's Sons Co., David, Philadelphia, Pa.
3845. *Industrial Windows.* Catalog No. 12-A. Illustrated. Deals with steel windows for industrial use.
3846. *Residence Windows.* Catalog C-122. Illustrated. Takes up various types of Lupton steel windows for homes.
Truscon Steel Co., Youngstown, O.
4795. *Truscon Steel Sash* Illus. 80 pp. Handbook for detailers and specification writers.
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog. Contains designing data, tables and views of Stock Sash installations.

WINDOWS—WOOD
Andersen Lumber Co., Bayport, Minn.
2241. *Andersen Window Frames.* 24 pp. Illus. General catalog of White Pine Frames.
2242. *Better Frames for Your Money.* 6 pp. Illus
California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of information Sheets on California White and Sugar Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.
Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.
Wheeler, Osgood Co., Tacoma, Wash.
5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of *Laminex* and *Woco* doors and includes description of *Woco* window sash.

WINDOW SHADE EQUIPMENT—See Shades and Shade Rollers

WIRE, IRON, BRASS AND BRONZE PRODUCTS—See also Ornamental Iron and Brass
Meyers Mfg. Co., Fred J., Hamilton, O.
3981. *General Catalog.* 110 pp. Illus. Covers entire line of wire, iron, Bronze and brass products.
3982. *Folder.* 4 pp. Illus. Describes new type of grille for the house screen door.
New Jersey Wire Cloth Co., Trenton, N. J.
4143. *Wire Work.* Descriptive literature. Illus. Treats upon wire lath, screens and kindred wire products.
Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4203. *Practical Machine Guards.* Catalog. 36 pp. Illus. Shows application of *Econo* mesh for this duty.

WIRE CLOTH—See Screens

WIRE GLASS—See Glass

WOODWORK—See Lumber and Woodwork

WOODWORKING MACHINERY
American Saw Mill Machinery Co., 61 Main St., Hackettstown, N. J.
2172. *General Catalog No. 22 and Contractors' Bulletin No. 77.*
2173. *General Catalog No. 23.* Illus. 208 pp.
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2341. *Electric Portable Sander.* Bulletin BE. Illus.
Barnes Co., W. F. & John, Rockford, Ill.
2351. *Barnes Catalog.* 38 pp. Illus. Covers line of saws, etc.
2352. *Barnes Motor Driven and Foot Power Woodworking Machines.* Booklet. 14 pp. Illus. Takes up various types.
Black Bros. Co., Inc., Mendato, Ill.
2472. *Black Veneer and Glue Room Equipment.* Catalog No. 11. 16 pp. Illus. Covers the line of clamps, presses, mortising machinery and sandpaperers.
Buffalo Forge Co., 476 Broadway, Buffalo, N. Y.
2541. Catalog, 850-54. Describes the *Buffalo* Woodworker.
Colgan Machinery & Supply Co., 16 E. Broad St., Columbus, O.
2741. *Would You Bore Holes with a Hot Iron?* Folder. 4 pp. Illus. Describes *Champion* hand power and electric power mortisers.
Crescent Machine Co., 206 Main St., Leetonia, O.
2861. *Crescent Saw Tables.* Catalog. 20 pp. Illus. Covers complete line of *Crescent* saw tables. Includes four additions.
DeWalt Products Co., Leola, Pa.
2941. *DeWalt Woodworker.* Folder. 4 pp. Illus. Furnishes information regarding *DeWalt* universal woodworker.
Gallmeyer & Livingston Co., Grand Rapids, Mich.
3181. *Union Woodworking Machines.* Booklet. 16 pp. Illus.
3182. *Woodworking Machinery.* Booklet. 14 pp. Illus., Describes several types of routers, boring machines, rawers, etc.
Hutchinson Mfg. Co., Norristown, Pa.
3451. *Don't Let Dollars Slip Through Your Fingers.* Folder. 6 pp. Illus. Describes *Speed Marvel Worker.*
3452. *Bench Jointers.* Folder. 4 pp. Illus. Presents Speed Marvel 4" and 6" jointers.
3453. *Beaver.* Folder. 4 pp. Illus. Describes woodworker and gives specifications.
Kennedy, Ralph, 117 N. 7th St., Philadelphia, Pa.
3621. *The Kennedy Utility Saw.* Descriptive literature. Describes product for general work.
Kornau Machine Co., Gulow and Vendalia Sts., Cincinnati, O.
3731. *Upright Hollow Chisel Mortiser.* Data and description.
Markwell Mfg. Co., 176 Franklin St., New York.
3941. *Markwell Catalog.* 33 pp. Illus. Describes various appliances for the sash and screen maker.
Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.
3961. *Master Woodworker.* 18 pp. Describes model No. 7.
Parks Ball Bearing Machine Co., 1540-46 Knowlton St., Cincinnati, O.
4261. *Parks Woodworking Machines.* Catalog E. 42 pp. Illus. Includes details and specifications of complete line.
4262. *Cabinet Shop Special.* Bulletin. No. 7. 6 pp. Illus. Describes *Parks* combination woodworking saw.
4263. *Contractors' Special Swing Cut-off Saw.* Bulletin. 4 pp.
4264. *Planing Mill Special.* Bulletin. C-85. 6 pp. Illus. Includes description, details and prices.
Sheldon Mfg. Co., Inc., Box 25, Neahawka, Neb.
4563. *Four Leaflets and Folders.* Illus. Describe their *Model A* portable gas engine, saw rig and *Model B* portable electric.
Sidney Machine Tool Co., Sidney, O.
4581. *Famous Woodworking Machinery.* Catalog, pocket size, 100 pp. Illus. Gives information with specifications.
4582. *Booklet.* 12 pp. Illus. Gives additional information.
Wallace & Co., J. D., 134-158 S. California Ave., Chicago.
4891. *Wallace Bench Machines.* Illus. Loose Leaf Catalog. 22 pp.
4892. *Wallace Machines for Working Wood.* Illus. Catalog.
4893. *The Woodworking Pictorial.* A Bulletin of suggestions.

ZINC—See Leaders, Flashings and Gutters; also Roofing Materials

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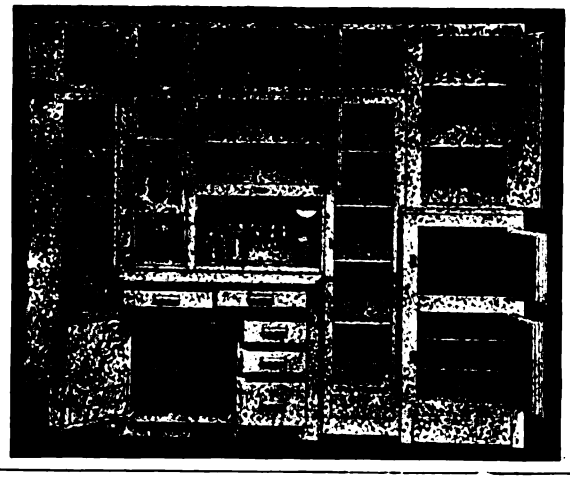
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( ) BROOM CLOSET, to set in any kitchen ( ); to be built into wall ( ).
( ) DISH CLOSETS, LINEN CUPBOARDS, to be set in ( ); to be built in ( ).
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( ) KITCHEN MAID KITCHEN CABINET.
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For the Builders' Library

The Home Plan Book by Maurice D. Klein: 116, 8x11 inch text pages, price $2.00, bound in boards, published by The Home Builders' Service Bureau, Toronto, Canada.

This book is a collection of 50 architectural designs of moderate cost. The homes are so arranged that the prospective home builder can select the exact design to comply with the available money and the space requirements. Complete working drawings of the homes portrayed are prepared by the publishers. For the contractor there are few books offering a more complete and attractive collection of small residences.

Problems in Architectural Drawing by Franklin G. Elwood, B. Arch.: 132, 8x11 inch pages, bound in boards, price $2.25; published by The Manual Arts Press, Peoria, Ill.

Though this book presupposes an elementary knowledge of mechanical drawing, it is written primarily for the beginner. Anyone in the building field who wishes to learn more of the fundamentals of architectural drawing will find this work a valuable aid. Many illustrations of plans and elevations of simple buildings are scattered throughout the book.

History of the Portland Cement Industry by Robert W. Lesley: 318, 6x9 inch pages, cloth bound, price $3.00; published by the International Trade Press, Inc., Chicago, Ill.

Beginning with the earliest recorded use of cement Mr. Lesley follows its development through the centuries down to the product that finds such widespread use to-day. The history deals primarily with the manufacture of Portland cement in this country—its first application to American construction, the reason for the tremendous impetus toward greater production and the men to whom builders are indebted. The work is particularly clear and complete.

Modern Pise-Building by Karl J. Ellington: 116, 6x9 inch pages, price $3.00; published by Karl J. Ellington, Port Angeles, Wash.

The art of house building with compressed or rammed earth is probably the oldest still in use to-day. The method of construction, as well as the possibilities for the future, of pise de terre are brought out in this unusual book. Among the illustrations is found a fac simile letter written by Chief Inspector Sven Linders of Staffanstorp in which he credits Mr. Ellington for his work and sanctions the use of pise for farm buildings.

The Electric Motor Truck by Edward E. LaSchum: 308, 6x9 inch pages, cloth bound, price $4.00; published by U.P.C. Book Company, 239 West 39th Street, New York City.

The builder who is using electric trucks or who has at some time or other contemplated their use will enjoy this new book. From a brief history of the motor truck to an analysis of electric truck transportation the author writes with unusual power. A testimonial from Thomas A. Edison bears witness to the success of the work.

The Properties and Uses of Wood by Arthur Koehler, B.S.: 354, 6x9 inch pages, cloth covered, price $3.50 published by McGraw-Hill Book Company, 370 Seventh Ave., New York City.

In recent years there has been considerable demand for more definite information concerning timber—information based on actual engineering tests rather than trial and precedent. Realizing this, Mr. Koehler has developed a work of non-technical yet clear and accurate character and of unusual value to the building field.

Simple Examples of Reinforced Concrete Design by Oscar Faber: 86, 5½ 8½ inch pages, cloth bound, price $1.70; published by Oxford University Press, New York.

Practical applications of reinforced concrete principles are discussed in this book with unusual clearness and effectiveness. It is a comprehentive treatment of simple construction.

CURRENT indications of a continued busy season make time an important element in the completion of Fall Construction plans. The builder owes it to himself to have at hand every available means of facilitating his work, particularly those useful tools of construction men, instruction and reference books. We will gladly assist our readers in the selection of the best books on a particular subject and for their convenience any book may be ordered through BUILDING AGE AND NATIONAL BUILDER, Book Department, 239 West 39th Street, New York City.

Accounting and Business Methods for Contractors by Charles F. Dingman: 176, 4x7 inch pages, cloth bound, price $2.50; published by McGraw-Hill Book Company, 370 Seventh Avenue, New York City.

This book takes up such problems of the contractor as: cost finding, cost keeping, accounting, purchasing and insurance. Written from the layman's point of view it forms a valuable reference work for the builder who finds himself entangled in a maze of cost and accounting figures.

Portable Lamps by M. Luckiesh: 144, 5½x8 inch pages, cloth bound, price $2.00; published by E. P. Dutton & Company, 681 Fifth Avenue, New York City.

To-day portable lamps have been accepted as a necessary appointment to the home. The contractor who is interested in furnishing as well as building the home will find this volume exceptionally attractive and interesting.

The Home of Beauty, a collection of designs: 72, 8x11 inch pages, bound in paper, price $.50; published by The American Face Brick Association, 130 North Wells Street, Chicago, Ill.

Selected from four hundred designs of small houses under consideration, the ones used in the preparation of this book are excellent types of small brick dwellings. Of the 150 homes judged acceptable, 4 are prize winners and 5 received honorable mention. Plans accompany each exterior.

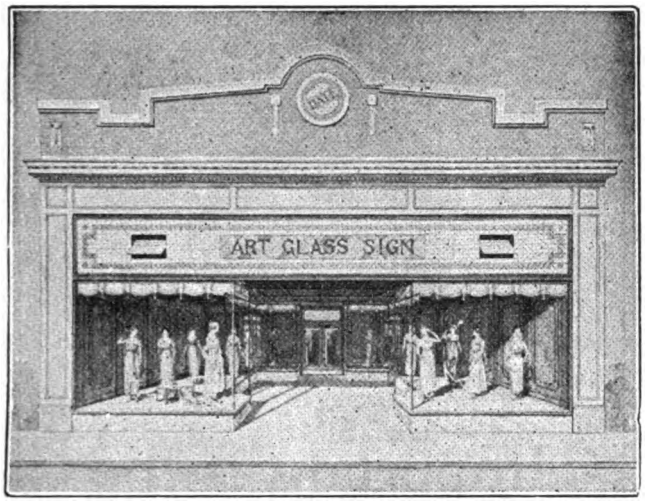
Concrete Making Machinery by W. Noble Twelvetrees: 184, 4½x7½ inch pages, cloth bound, price $3.50; published in London by Scott, Greenwood & Son, in New York by D. Van Nostrand Company.

In line with the increasing popularity of mechanical concrete making equipment, this book deals with the preparation of the aggregates, with mixing and distributing machinery and the design of concreting plants. The arrangement of the book is excellent.

The Steel Square Pocket Book by Dwight L. Stoddard: third edition, 182, 4x6½ inch pages, cloth bound, price $1.00; published by the U. P. C. Book Company, 239 West 39th Street, New York City.

A practical and compact book illustrating best methods of using the steel square. It fits the pocket and is thoroughly indexed for quick reference. The illustrations are marked by the absence of reference letters. Instead, the square has been laid on the work and reproductions show actual dimensions—an idea both novel and practical.

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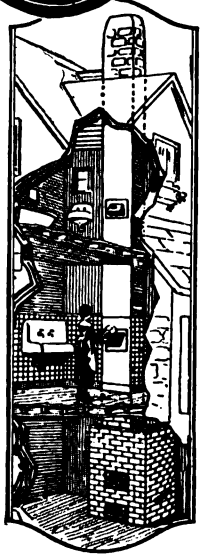


Kernerator-equipped residence of Stanley Goldman, Cecil Place and University Lane, St. Louis, Mo. Architects Study & Farrar; Builder John Craig.

Builder John Craig Builds—in Contentment

JOHN CRAIG, St. Louis, by building the time-tried Kernerator into the luxurious home pictured above, did much to insure permanent contentment for the owner.

For the Kernerator banishes garbage and rubbish for all time. Years of perfect performance in thousands of installations, confirm the judgment of seasoned builders.



Here is a typical Kernerator installation. It costs no more than a good radio set, and gets rid of the garbage nuisance forever.

No Upkeep Cost— No Fuel Used

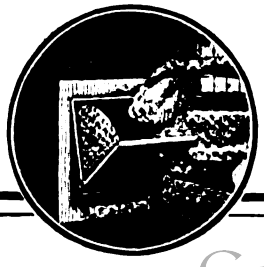
As shown, the Kernerator consists of a brick combustion chamber at the base of the regular chimney, with a separate flue, having hopper doors conveniently located in or near the kitchens above. *All* waste—garbage, sweepings, tin cans, bottles, papers, magazines—trash of every sort—is dropped through the hopper door, then forgotten. An occasional lighting burns everything but non-combustibles, which are flame-sterilized for removal with the ashes.

For additional data, consult Sweet's (1924) Pages 2536-37, or write

KERNER INCINERATOR COMPANY
1927 Chestnut Street — Milwaukee, Wis.

KERNERATOR
Built-in-the-Chimney
Reg. U. S. Patent Office

Drop all waste here



—then FORGET it!

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4 Links in the Chain of Evidence for Trough Sheet.



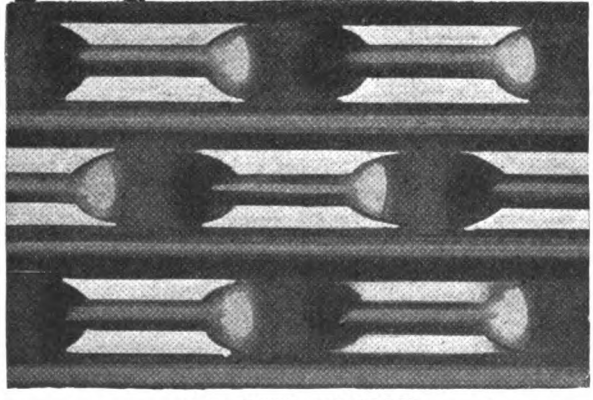
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2 Trough Sheet is quicker to apply than any other type of lath, much quicker than wood, and easy for one man to handle because of its stiffness.

3 Trough Sheet is economical of plaster, because it secures a perfect key without loss or excess of plaster, even for plasterers with no metal lath experience. As easy to plaster on as wood lath.

4. Saves the plasterer's time, because it is rigid and strong enough to bear the load of wet plaster, and permits the application of the second coat while the scratch coat is still green, thus saving the need of tearing down and rebuilding the scaffold.

Sykes Metal Lath Co.
Better Building Specialties
Niles, Ohio



——————USE THIS COUPON——————

Sykes Metal Lath Co.,
Niles, Ohio.

Send sample of Trough Sheet Metal Lath and your catalog to

.....

.....

☐ Dealer
☐ Contractor .....
☐ Architect



Important is the Choice of Lumber in home building

YEARS AGO, with one primary purpose in mind, The Long-Bell Lumber Company made its decision to trade-mark the lumber and timbers it produced: To identify maximum lumber value as against "just lumber".

Long-Bell products have been sold and used in constantly increasing volume because Long-Bell production has maintained that standard of maximum value which justifies the manufacturer's name on every piece.

The choice of lumber is important. It goes into homes and buildings which must stand the buffets of time. Durable construction demands good lumber.

To give such lumber values, exacting production standards are followed in all Long-Bell plants. From the first operation on, the aim of every skilled workman is maximum building value. Today, with its advantageous experiences of fifty years in the business, the company produces trade-marked lumber and timbers dependable for the best construction.

Your local retail lumber dealer can supply Long-Bell trade-marked lumber. Ask for it.

Ask your lumberman for Long-Bell Trade-Marked Lumber Products

THE LONG-BELL LUMBER CO.
R. A. Long Bldg. *Lumbermen Since 1875* Kansas City, Mo.

LONG-BELL
Trade Marked LUMBER

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PENBERTHY PRODUCTS

New Model "R" Cellar Drain

A Vastly Improved PENBERTHY Product



More efficient, more economical, more durable and adaptable for a wider range of installations than any other cellar drain on the market, the new Model "R" Penberthy is better in every way than the Famous Model L, which has long been recognized as the best.

The New Model "R" can actually be used with water pressure as low as 10 to 15 pounds when higher pressures are not available —25 pounds pressure has always been the minimum heretofore.

It will pay you to get all the details about this new cellar drain, which can now be used in many places heretofore impossible. Write for literature giving complete details. Your jobber can supply you.

PENBERTHY INJECTOR COMPANY

Established 1886

New York Depot
71 Beekman St.

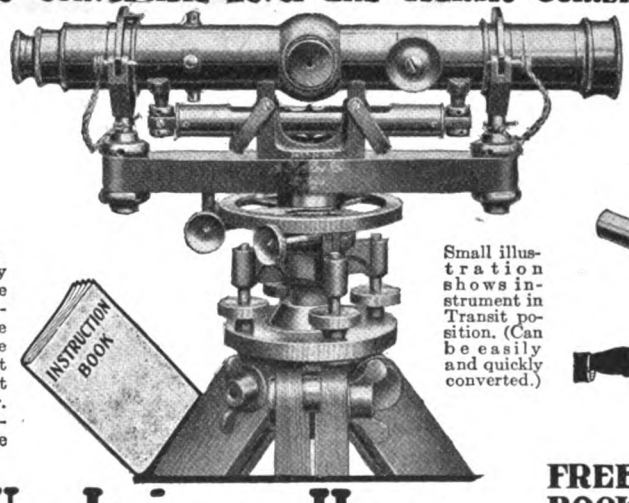
DETROIT
Michigan

Canadian Plant
Windsor, Ontario

Level and Plumb Better-Quicker—Own Your Own

$5.00 Brings it to you

Aloe Convertible Level and Transit Combined



FREE TRIAL



Small illustration shows instrument in Transit position. (Can be easily and quickly converted.)

Increases Your Income.

This instrument will add immeasurably to your efficiency and put you in the big builder class — will do more to increase your business, income and prestige than any investment you ever made. The Aloe Convertible Level is the world's best —a combination of both level and transit and quickly converted to the use of either. Absolutely accurate—satisfies the requirements of the most exacting—yet so simple that anyone can use it.

You Learn To Use It in an Hour

Complete Instructions

No technical knowledge necessary. No previous experience needed. With our simple and complete instruction book, included free with every level, you can immediately put the instrument to work. It is a level and transit combined—takes sights either above or below the horizontal. You can use it for leveling foundations, walls, piers, streets, walks or curbings—to run straight lines for ditches or drains—boundary lines for fences or trees—surveying lots and fields—plumbing walls, shafts, trestles, posts and pillars.

Easy Monthly Payments

Just $5.00 brings it to you—for a free trial. If perfectly satisfied, pay the balance in small monthly payments. The instrument will be sent at once and from the first day it will be working for you—paying for itself by saving you the cost of borrowing an instrument or the fees you have been paying other men for this work.

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Our free book—"Be A Bigger Builder"—tells you how to increase your income—how to get the profitable jobs and become a bigger man in your community. Write for this book today.

A. S. ALOE CO., 632 Olive St., St. Louis, Mo.

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MAIL COUPON TODAY

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Without obligation, send me your FREE book, "Be A Bigger Builder". Also full particulars about the Aloe Convertible Level and details of your easy payment plan.

Name.....

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"The Finest Invention I Have Ever Seen"

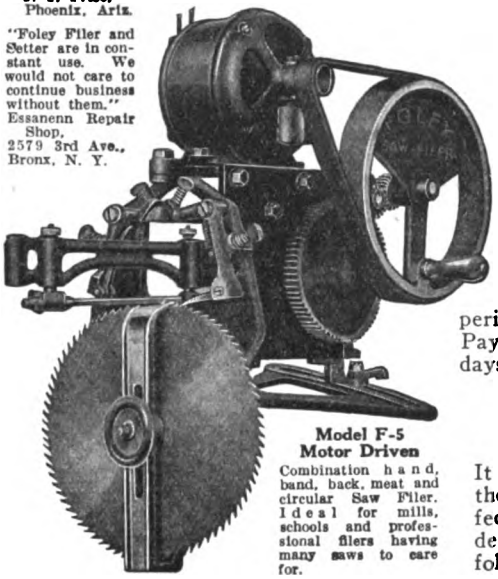
What Others Say

"I now can keep my saws in A-1 condition with but a few minutes' work now and then."
Russell Albert Cook, Cresskill, N. J.

"Foley Filer and Setter are far above my expectations both in construction and in the work they do."
J. T. Price, Phoenix, Ariz.

"Foley Filer and Setter are in constant use. We would not care to continue business without them."
Essanenn Repair Shop,
2579 3rd Ave.,
Bronx, N. Y.

That's what John L. Betz of Bogota, N. J., says about his Foley Automatic Saw Filer. Here's his letter: "It is just one year since I purchased your Saw Filer and Saw Set, and I am doing quite a business in saw filing. It is the finest invention I and others have ever seen. Am getting big business from carpenters and they all approve of my work done on your machine."



Model F-5 Motor Driven
Combination hand, band, back, meat and circular Saw Filer. Ideal for mills, schools and professional filers having many saws to care for.

Files a Saw in 5 Minutes

You simply start the file on the first tooth—then turn the crank or let the motor do it. In 5 minutes your saw is perfect. Even retooths saws. No experience necessary. Pays for itself in 30 days.

Send for Information

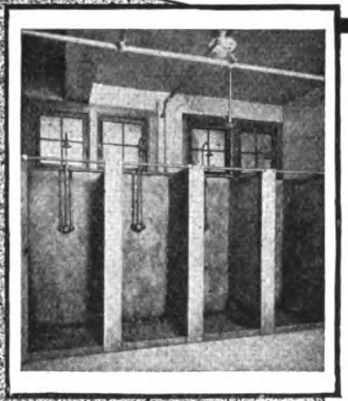
It will pay you to investigate these handy and more perfect saw filing and setting devices. Write for free folder.



Model F-3
Foley Hand Drive Outfit; ideal for small contractors, builders and professional filers. For hand, band, back and meat saws.

FOLEY SAW TOOL COMPANY, 916 E. Lake St., Minneapolis, Minn.

For Permanent Construction



ALBERENE Stone Toilet Partitions, Shower Stalls and Sanitary Work fit in exactly with the modern idea that the best building equipment is that upon which maintenance is the lowest, over the longest period of service.

Alberene Stone is a natural soapstone—ages in the making—selected for its time-resisting qualities. Its color is a pleasing light gray. It is dense, close-grained, practically non-absorbent and stain-proof. Our methods of assembling make joints that are as lasting as the material itself—sanitary and water-tight always.

And as a material for stair treads, Alberene Stone has the right color, the right hardness, the right surface. It is increasingly in demand for schools, institutions, public and industrial buildings.

Let us send you our Specifications and Detail Sheets, for your file.

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Consult Us About Your Construction Financing

We are now in the market for mortgage bond issues secured by new construction and welcome applications in amounts from $250,000 to $1,000,000 or more.

Our service covers not only financing, but the personal attention of our Engineering Department, the personnel of which includes men of wide experience, whose suggestions often result in substantial savings to the property owner.

An inquiry will receive prompt consideration. We will be glad to send you a booklet explaining the "Miller Plan of Financing", together with letters from architects and builders for whom we have negotiated satisfactory mortgage bond issues.

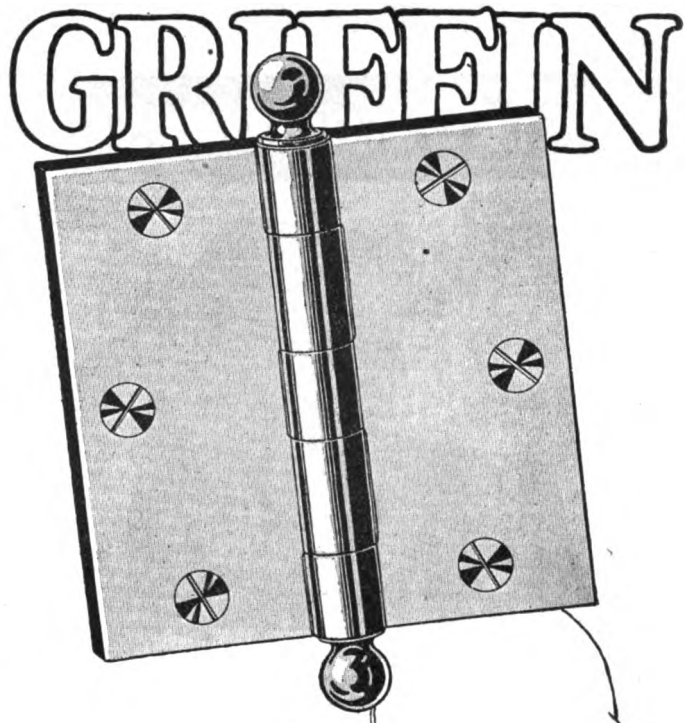
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Northern Headquarters:
30 E. 42nd St., New York

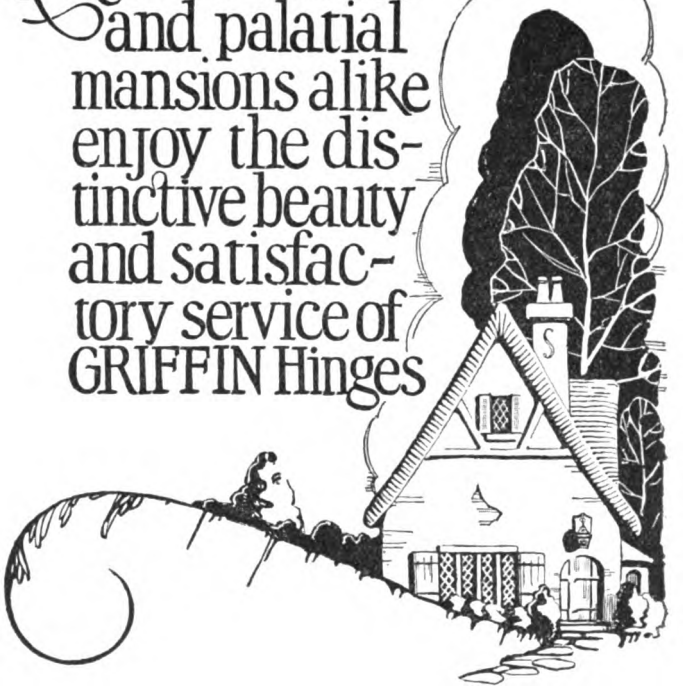
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GRIFFIN



Modest homes and palatial mansions alike enjoy the distinctive beauty and satisfactory service of GRIFFIN Hinges



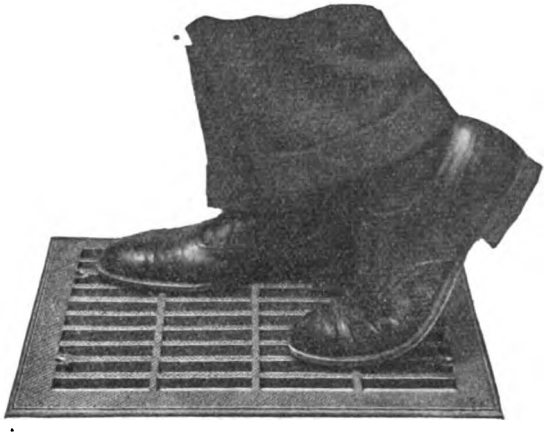
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It Stands This Ruff and Scuff

That's Another House Selling Help for You

YOU can ask your prospects to ruff and scuff their feet on this new Cobble design register face, as hard and long as they want to, and still its special Tanbo Antique Finish will be unharmed.

You can compare it with the ordinary looking, black Japan stamped steel face, and make it one of the selling points of your houses. You know the wives certainly do fall for all such so-called "little things."

They are big ones to her.

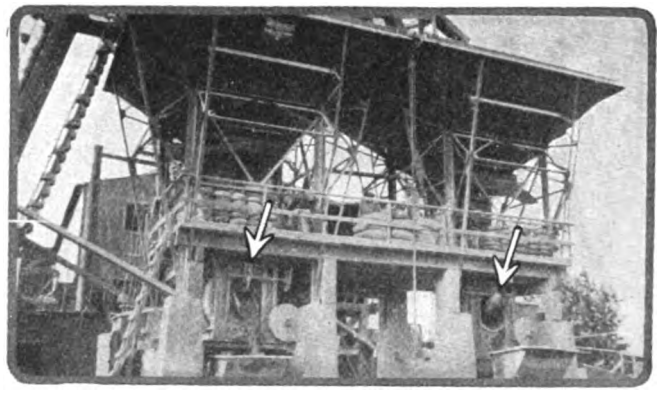
Get one. Try it out. See for yourself.

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For over 75 years Makers of Registers

36 Portland St. 441 Lexington Ave. 1123-29 West 37th St.
BOSTON NEW YORK CHICAGO

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Two electrically driven Smith 28-S Non-Tilting Mixers used in the central mixing plant for the Philadelphia Subway job—Keystone State Construction Co., Contractors

Big Jobs Call For Big Smiths

Wherever the job demands large concrete production—speedy and dependable production—big Smith Mixers are put to work.

The Smith reputation for thorough mixing, maximum capacity, rapid production and dependable operation at a minimum of operating and maintenance cost has been built up and sustained for more than a quarter of a century by the records of Big Smiths on the job.

It is natural then that two Smith 28-S Non-Tilters were chosen by the Keystone State Construction Co. to do the concreting work called for by their big Philadelphia Subway contract. And as the principal units of the central mixing plant illustrated above, these two electrically driven Smiths are fulfilling their reputations by delivering a steady volume of concrete to the large fleet of trucks used for distribution of the concrete along the subway.

Smith Tilting Mixers are built in the following sizes: 2½, 3½, 5, 7, 10, 14, 21, 28, 40, 56 and 112 cu. ft. per batch; Smith Non-Tilting Mixers: 7, 14, 21, and 28 cu. ft. per batch; Smith Paving Mixers: 21-E.

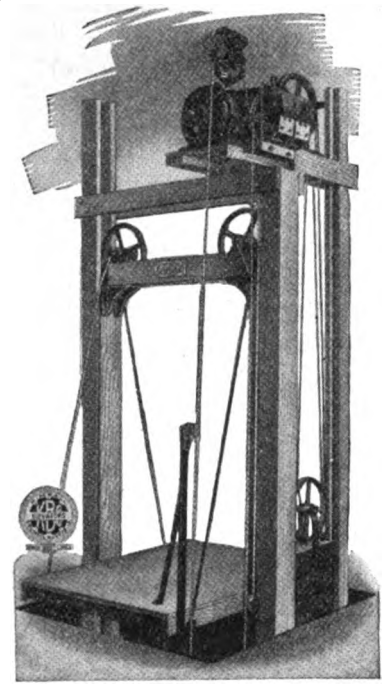
Let us send you our latest catalog No. 500 which fully illustrates and describes our complete line of concrete mixers. Write for it today.

THE T. L. SMITH CO.
1028 32nd St., Milwaukee, Wis.

Sales Offices and Service Stations in all Principal Cities

SMITH MIXERS

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"There is a Kimball built to suit your requirements"

Light Electric Elevators

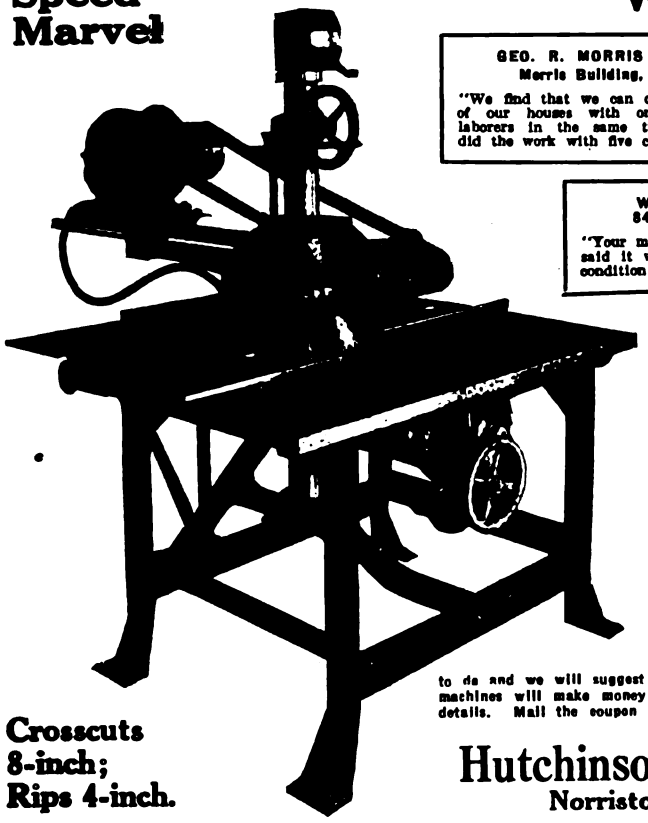
These machines come in three speeds and capacities. They give the service of the more expensive elevators and are easily and quickly installed wherever there is electricity.

Write for detailed information on KIMBALL'S LIGHT ELECTRIC

KIMBALL BROS. CO.
1106-22 Ninth Street
Council Bluffs, Ia.

F

The Speed Marvel



Crosscuts 8-inch; Rips 4-inch.

For the Truth About Woodworkers, Ask the Users!

GEO. R. MORRIS ORGANIZATION
Morris Building, Baltimore, Md.

"We find that we can cut the framing of one of our houses with one carpenter and two laborers in the same time that we formerly did the work with five carpenters."

THE DERR LUMBER CO.
6326 Market St., Philadelphia

"By using your machine for dadoing and notching our frame sills we are able to increase our production fifty per cent over that which we had on the fitting-up saw."

WATERBURY & RILEY
84 Walker St., New York

"Your machine has done everything you said it would do, and is still in good condition after three years' use.

H. T. PACE, Sanford, Fla.

"My machine is doing the work of five high priced carpenters, and doing the cutting much truer. We use the machine and forget all about the square and pencil."

Hundreds of carpenters and builders have written us letters similar to the above. They are all enthusiastic about the performance of the Speed Marvel. The Speed Marvel is a sturdy, big capacity machine that will give perfect satisfaction either in the shop or out on the job. It is equipped with a 3 H.P. motor and all the power developed by the motor is delivered to the cutting tool, for there are no countershafts or idler pulleys to waste power. Takes crosscut saws up to 20" diameter, and rip saws up to 16" diameter. Has 6-inch jointer. In fact it is 12 machines combined in one, and will do 23 different woodworking operations.

We also manufacture The Beaver, which is sold and guaranteed as the world's best light-socket woodworker. The Beaver will rip or crosscut 2-inch material. Tell us what you want to do and we will suggest the right machine for your use. These machines will make money for you, and it will pay you to get details. Mail the coupon now.

Hutchinson Mfg. Co.
Norristown, Pa.

To Hutchinson Mfg. Co., Norristown, Pa.

Please send full particulars on your wood workers. I am particularly interested in the machine I have checked below.

☐ **The Speed Marvel with 3 H.P. Motor.**
☐ **The Beaver with either ½ or 1 H.P. Motor.**

Name .....
Business .....
P. O. .....State .....
St. or R. D..... (B.A.)

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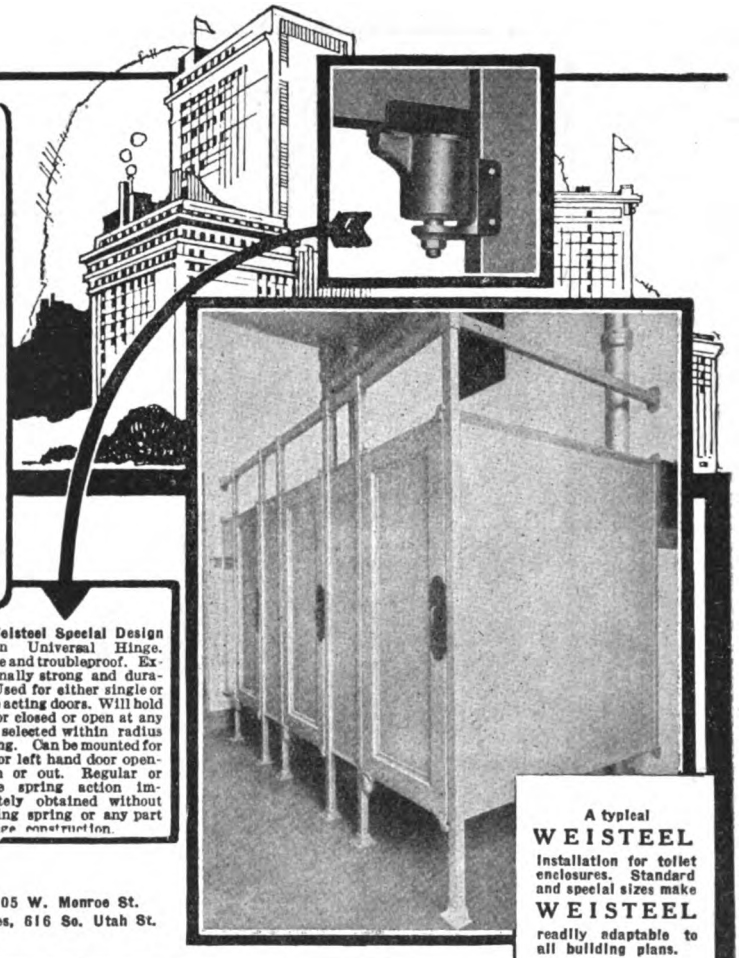
No other steel compartments for toilets, showers and dressing rooms have ever equalled the specifications of

WEISTEEL

Compartments

That's why leading architects and builders invariably specify WEISTEEL Compartments for use in both new and old buildings. The partitions are made from copper bearing furniture steel 1/16 inch thick. Hardware is of special design, latch and pull brass nickel plated. For 14 years WEISTEEL has satisfactorily met, in every type of building, the expectations of architects and builders. If you don't have the WEISTEEL Catalog in your files—the best known textbook on steel compartments—write for a copy today.

The Weisteel Special Design Lawson Universal Hinge. Simple and troubleproof. Exceptionally strong and durable. Used for either single or double acting doors. Will hold the door closed or open at any point selected within radius of swing. Can be mounted for right or left hand door opening in or out. Regular or reverse spring action immediately obtained without changing spring or any part of hinge construction.



A typical WEISTEEL installation for toilet enclosures. Standard and special sizes make WEISTEEL readily adaptable to all building plans.

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General Offices: Atchison, Kansas

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Chicago, 105 W. Monroe St.
Los Angeles, 616 So. Utah St.
Atlanta, 1317 Citizens and Southern Bank Bldg.

"MARKWELL" No. 8 Foot Power Mitering Machine



"STRONG AND SERVICEABLE"

$55.00

F. O. B. New York

"Saves Time and Steps"

This is the most useful machine ever used by carpenters, cabinet makers and others, for mitering mouldings.

It cuts a perfect miter; no guess work.

The base and stand are cast iron; strong and heavy.

The steel gauge has two adjustable stops which enable the operator to cut both short and long mouldings for a panel.

The gauge is two feet long and the attachments are so constructed that the user can put on any length at his pleasure.

The stops on the rod can be thrown up and down as indicated in illustration.

Cuts up to 2½ inches wide.

No. 2 Hand Mitre Jack (with spring back handle) cuts up to 2¼ inches wide. $25.00 F. O. B. New York, or Milwaukee.

Write for our complete catalog of Woodworkers' Equipment.

A. & L. MARKWELL MFG. CO.

176 FRANKLIN STREET NEW YORK, N. Y.
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The new
PARKS
Cabinet Shop Special
No. 7
$250.
as illustrated with motor



The Greatest Success of Parks History!

Think of It!

8-inch rip and cross cut saw
6-inch safety jointer
16-inch band saw
Motor — for only $250.00.

In a few short months, Parks Cabinet Shop Special No. 7 has won such popularity as to make it the big leader of the Parks line.

Right from the start our production was pushed to the limit to meet the orders that poured in.

Contractors wanted it! A real, all-around, complete, self-contained woodworker that makes any cut, and ready to work at any light socket. Designed as your own experience proves is most convenient, natural, efficient and durable. No freakish innovations! The motor and belting are where they should be—out of the way. A clear work table with room to swing a board over. No trick adjustments to learn. Every operation is table-high—no back-breaking bending.



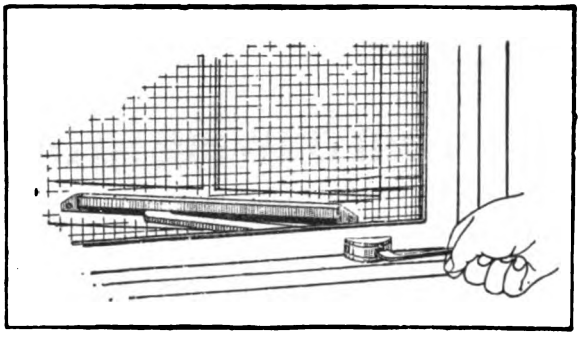
Have you a copy of the Parks complete Catalog?

And priced at $250.00 complete with motor! You can add a shaper at $25.00, a lathe for $15.00, a sander for $2.50.

You wanted it—Parks built it. Our rush of orders have proved it a winner. Write today for circular and name of your nearest dealer.

The Parks Ball Bearing Machine Co.
Station A, CINCINNATI, OHIO
Canadian Factory: 200 Notre Dame East, Montreal, Canada

PARKS
WOODWORKING MACHINES



It Costs No More to Have them than Not to

Wherever screens are used with outswung casements, the convenience and practical advantages of Win-Dor Operators may be enjoyed at as little expense as is necessary with no operators at all. For the New Standard type of Win-Dor Operator retails at $2 and installation cost is practically nothing. Old-fashioned stays or adjusters, beside their own expense and installation cost, require an expenditure for purchase and installation of screen hinges—which are unnecessary with Win-Dor.

And what a difference Win-Dor makes!

No need to open the screen to open the casement. To operate the sash simply press downward lightly on operator handle *inside the screen*, releasing automatic catch, and then swing the casement by moving handle easily and quickly to right or left.

Builders everywhere are welcoming the new Win-Dor. For Win-Dor controlled casements are most acceptable to home buyers and builders, and yet the new Win-Dor prices permit decided economy. Use the coupon for full information.

The Casement Hardware Co.
Casement Hardware Headquarters for Twenty Years
250 Pelouze Bldg., Chicago

COUPON

The Casement Hardware Co., 250 Pelouze Bldg., Chicago, Ill.
Please send me full information on Win-Dor Operators and tell me where I can see samples.

Win-Dor
CASEMENT WIN-DOR OPERATORS

Name _____

Address _____

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—from Sawing to Shaping

If it's a woodworking operation you can do it on the FAMOUS Jr. "30." Has five machines in one—Band Saw, Jointer, Saw Bench, Shaper and Boring Machine. Will do over thirty different operations with the use of a few special attachments. Cuts anything in lumber from rough boards to finest trim—also cuts labor and overhead costs. Saves floor space and the expensive installation of separate machines.

Built for Contractors, Builders, Woodworking Shops, Factories, Hotels and Office Buildings —in fact, wherever woodworking operations are performed. One man or five can work on it at the same time and one motor operates entire machine or any one or more units at the same time.

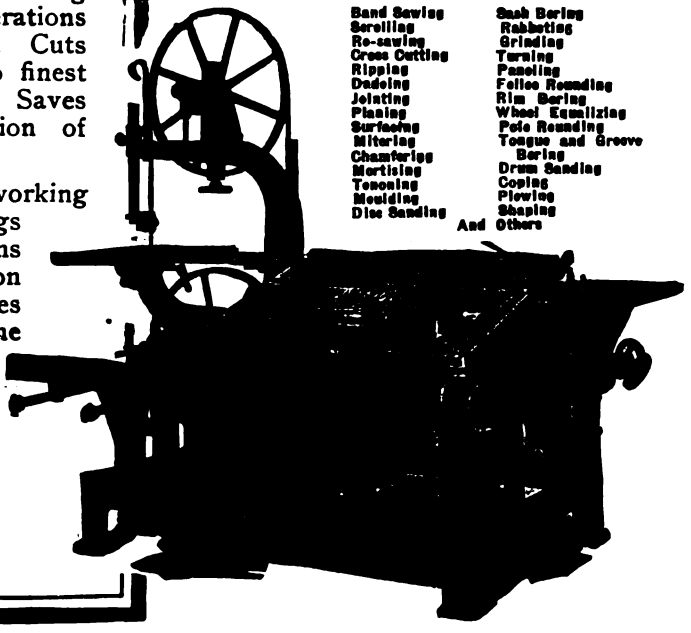
There's a big difference in Woodworkers. It will pay you to get our fully illustrated literature on the FAMOUS Jr. "30." Send for it now! Address Dept. 308.

The Sidney Machine Tool Co.
Sidney, Ohio

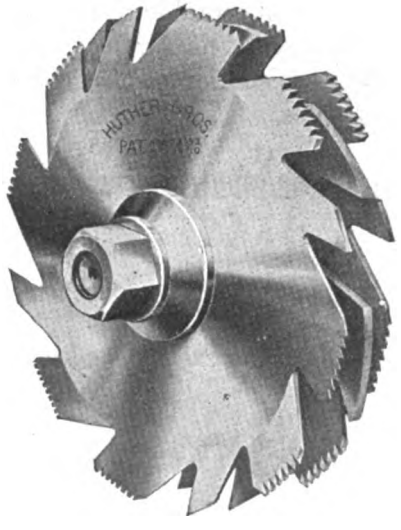
FAMOUS

Jr. 30

Woodworkers



There's more profit in a HUTHER SAW



A Huther Dado Head means bigger profits for you as it makes the most intricate cutting and grooving simple. It consists of two outside cutters and enough inside cutters to perform the desired cut. Simple to adjust.

Send for one on approval. It may be returned at our expense if unsatisfactory.

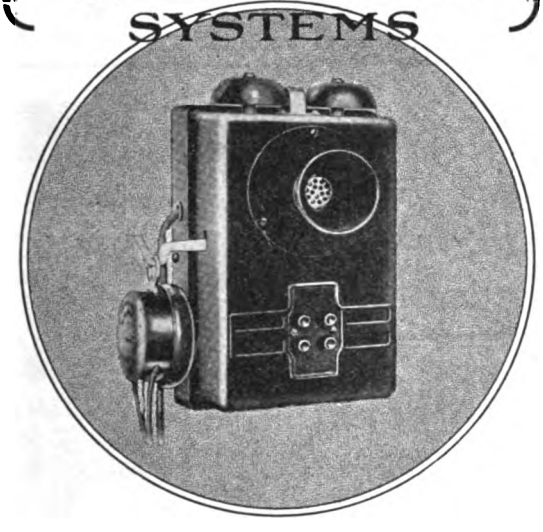
Huther Bros. Saw Mfg. Co.
ROCHESTER, N. Y.
Makers of Better Saws for More Than Fifty Years

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mineral roof
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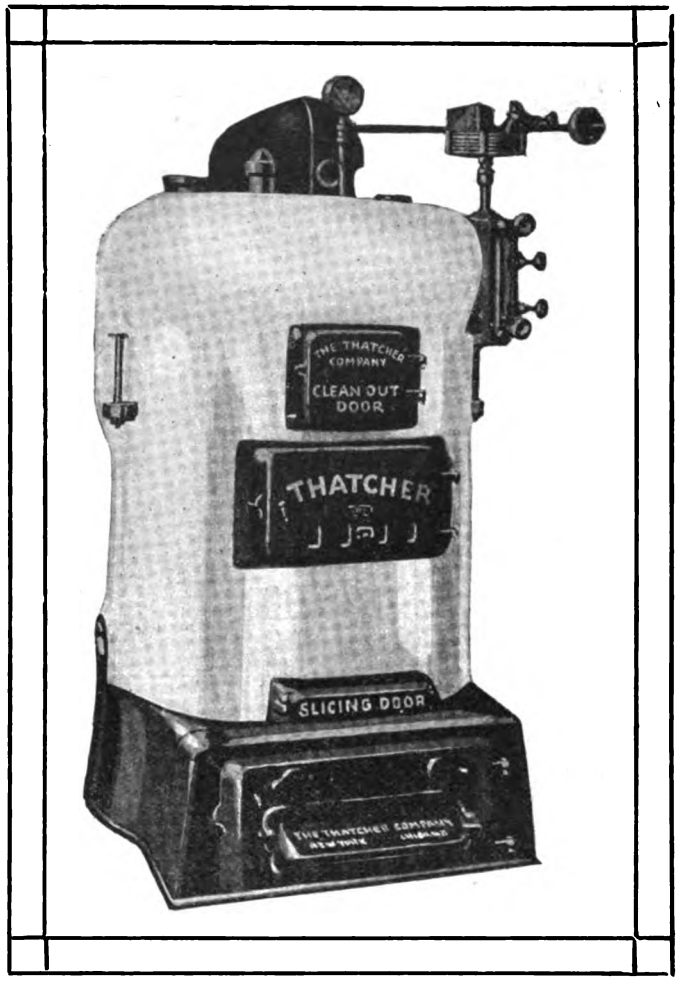
—and to round out the list of popular and useful specifications—

Western Electric
INTER-PHONE
SYSTEMS



Let us show you how the Inter-Phone is saving steps for homeowners and increasing the salability of houses for builders. Our literature and our personal assistance are at your disposal.

Western Electric
ELECTRICAL SUPPLIES
OFFICES IN 54 PRINCIPAL CITIES



Assure the Heating Future of the Home

EVERY time you specify a Thatcher Round Boiler, you have the satisfaction of knowing that the warmth and comfort of the home owner and his family is assured for years to come.

The same ease of operation, the same perfect control, the same low coal consumption is maintained winter after winter. Fuel costs may increase, but the Thatcher Round Boiler returns full heating value for every pound of coal consumed. The Thatcher Dealer in your locality knows his business. He is ready to give you expert co-operation.

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Formerly Thatcher Furnace Co.
Since 1850

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341 N. Clark Street, Chicago

THATCHER
BOILERS · FURNACES · RANGES

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White's Improved

NEW

"Duplex Level"



"Duplex" in position for running lines and plumbing uprights.

This newly patented combination Level-Transit met the instant approval of carpenters, millwrights and building trades mechanics. A handy lever makes the change from level to transit instantly, without lifting telescope from wyes. No jolting when change is made. No clamps or screws to adjust. 10 diameter lens system.

Index on Telescope insuring instant release from and to return to "level" position.

Three Point Bearing on Vertical Axis with spring tension giving constant and perfect contact of bearing surfaces.

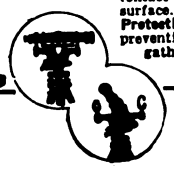
Adjustable Telescope Standards, cast integral.

Three Point Bearing on Horizontal Circle with center spring action—perfect contact of horizontal bearing surface.

Protective Flange under circle preventing "gumming up" or gathering of dust.



Press lever and it is back in "level" position to a hair.



White's Improved Convertible Level

Used for years by leading builders, architects, contractors. Changed from level to transit in 10 seconds. Level bars and transit bars cast as one. No loose parts; simple and sturdy. 25 diameter lens system.

Price

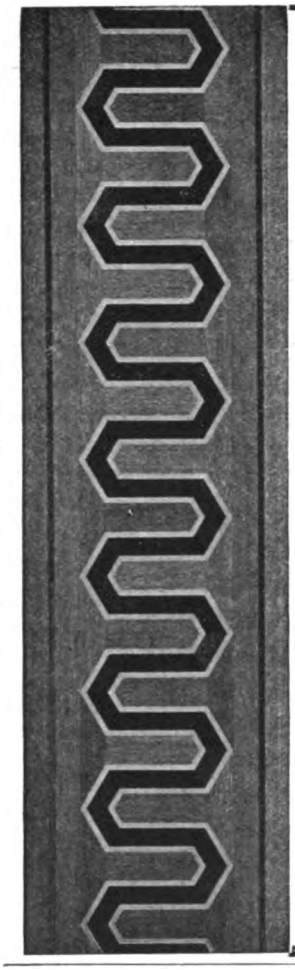
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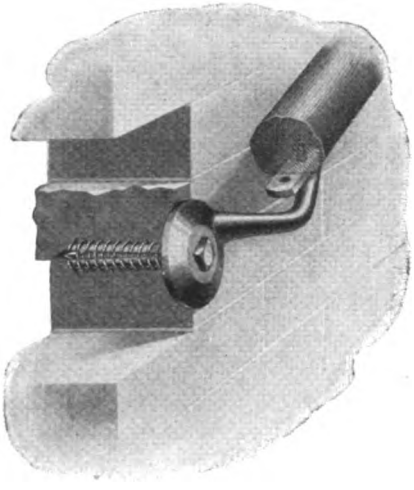
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See page 212 this issue

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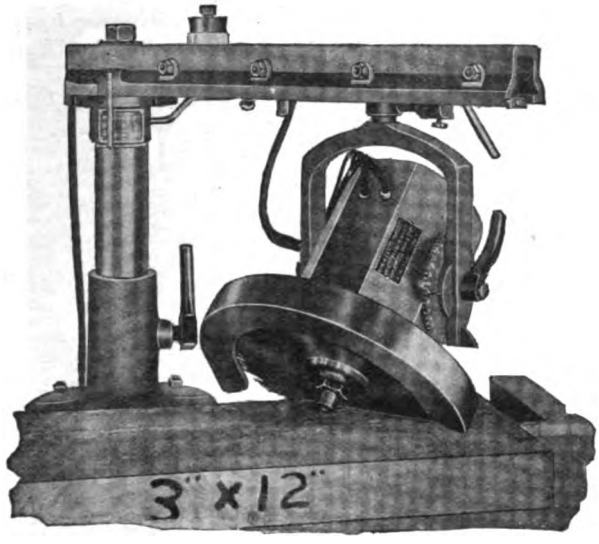
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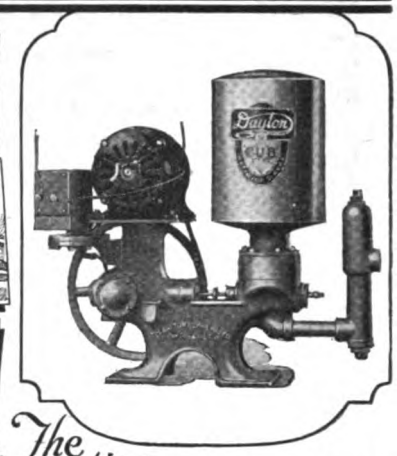
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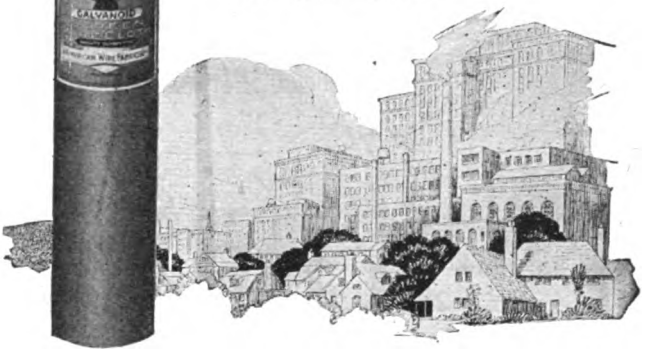


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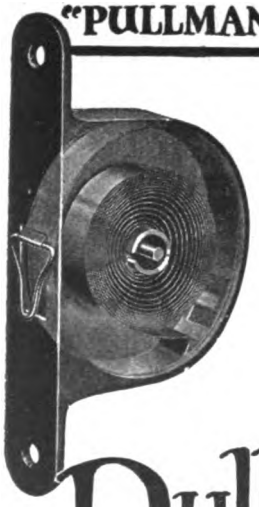
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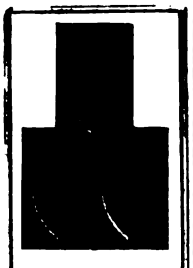


Fig. 187
Note the construction of patent interlocking Device used on Edwards Metal Shingles and Spanish Tile.



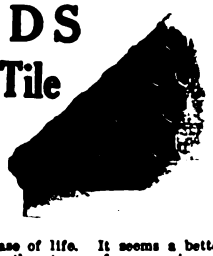
Fig. 367
Metal Spanish Tile for main part of roof.

Edwards "Queen Anne" Metal Shingles



Residence, Senator Geo. S. Nixon, Reno, Nevada. Edwards Metal Spanish Tile used on this building.

EDWARDS
Metal Spanish Tile



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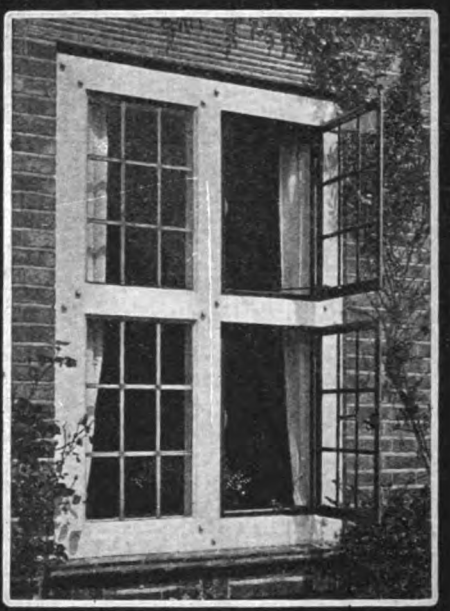
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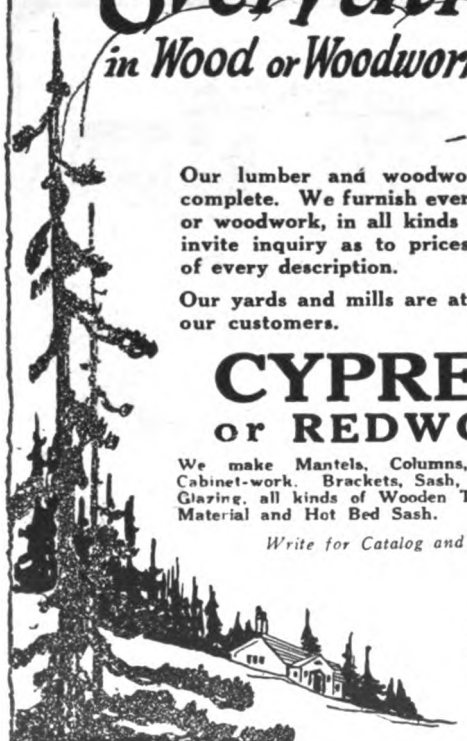
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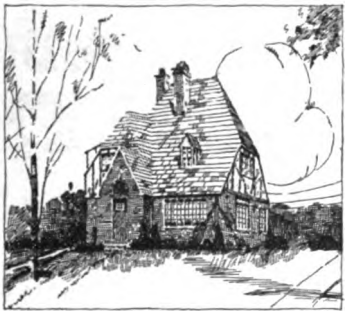
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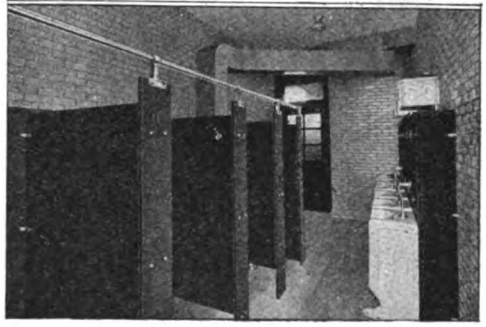
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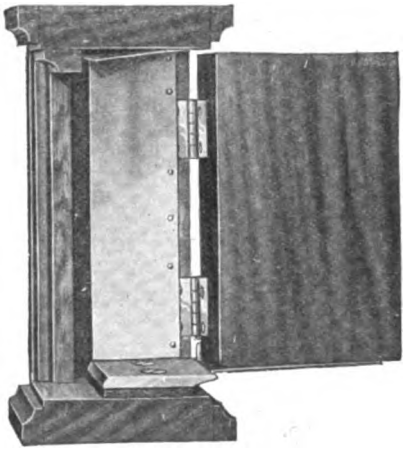
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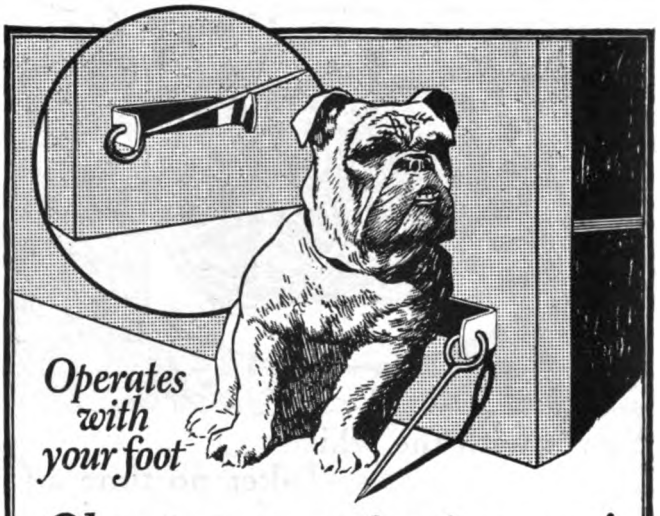
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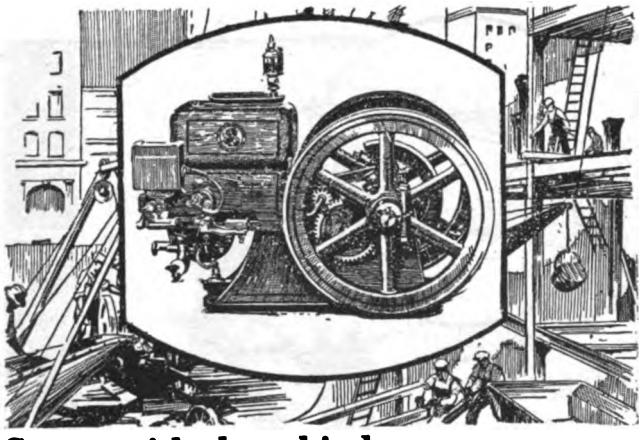


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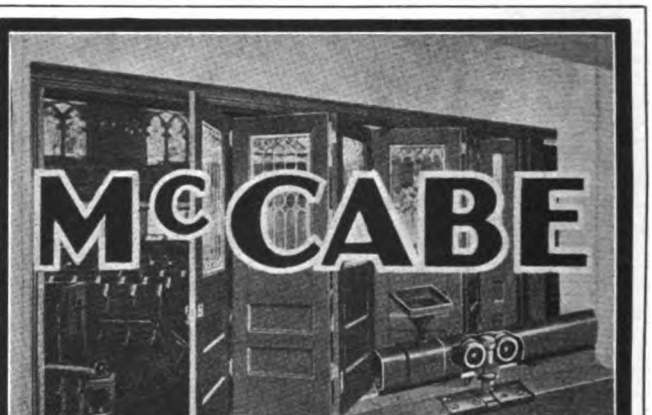
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ACCORDION DOOR HANGERS

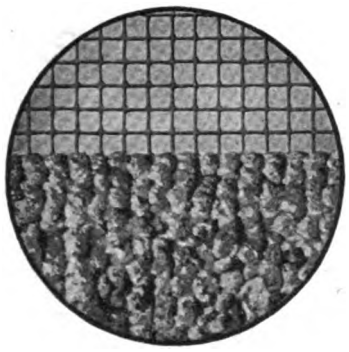
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They are operated by ball bearing swivel carriage on the top center of every other door. This carriage rolls in a self-cleaning tubular steel track, supported overhead by adjustable brackets. No floor track or guide is required on this type of partition which has the half door at the jamb.

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Standard Since 1856

Adapted to all kinds of plain and ornamental plastering.

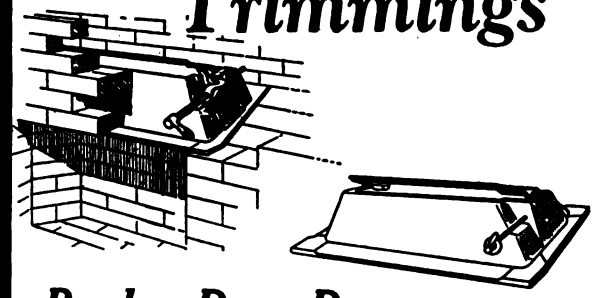
A glance at the key side of a wall plastered on Clinton Wire Lath will show the perfect manner in which the plaster surrounds the lath. The clinch of the back plaster will so cover every wire that it is difficult to detect a single strand showing in this perfect key.

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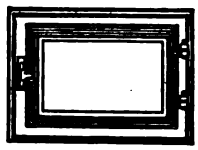


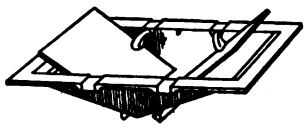
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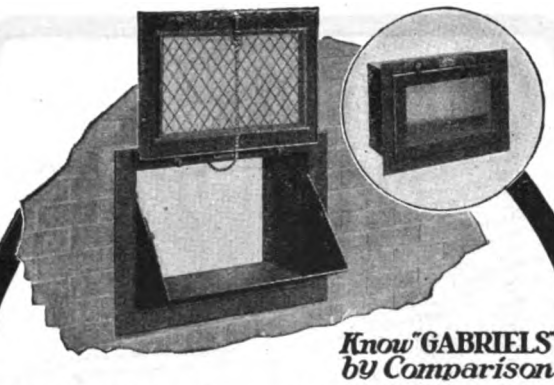


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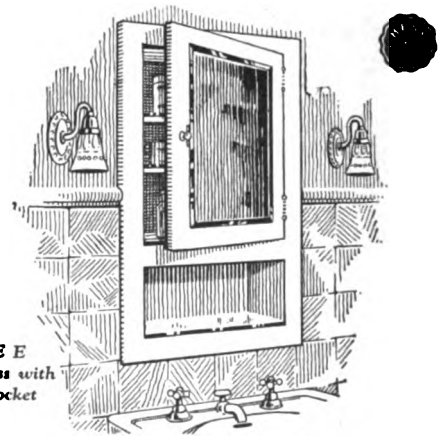
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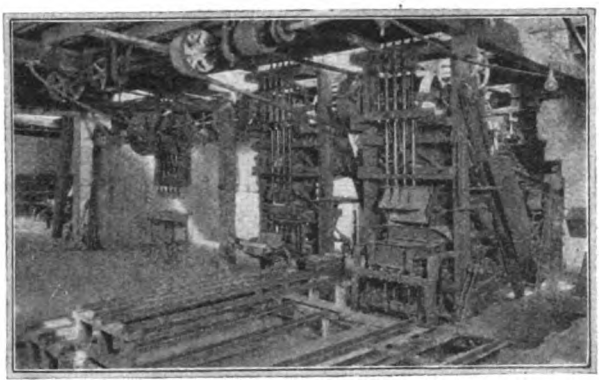
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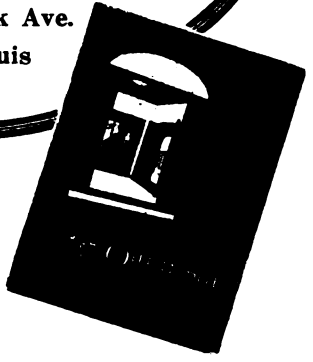
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Send for our Portfolio of Disappearing Beds—it pictures and describes these beds; and it gives complete information on retaining closet dimensions. This book is free to you. Use the coupon.

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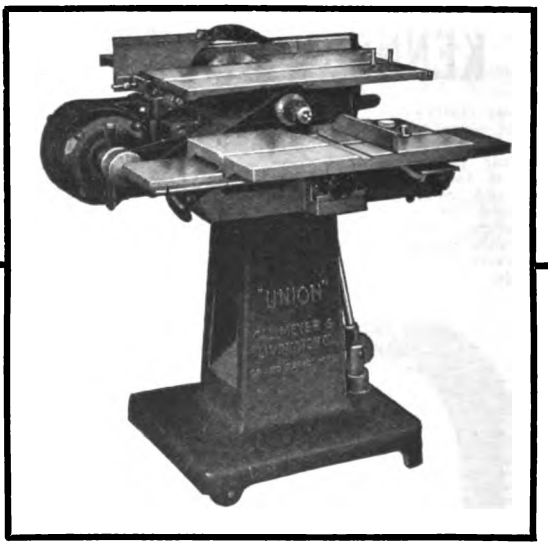


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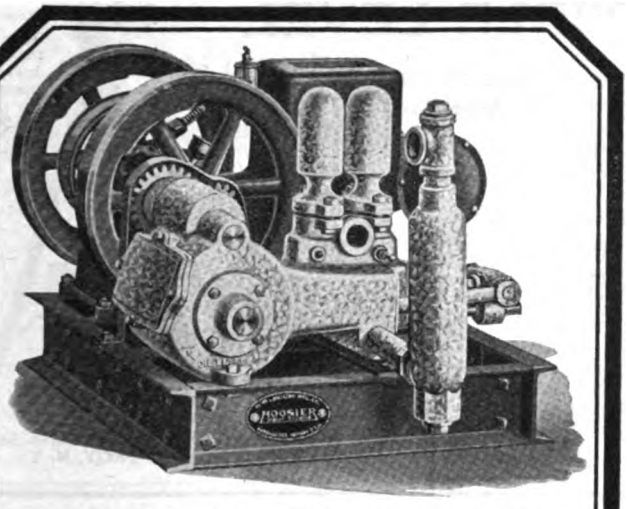
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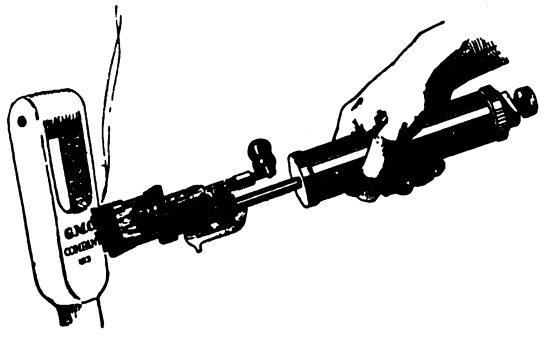
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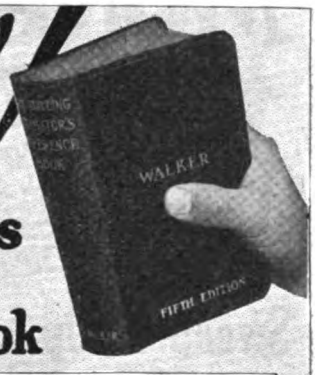
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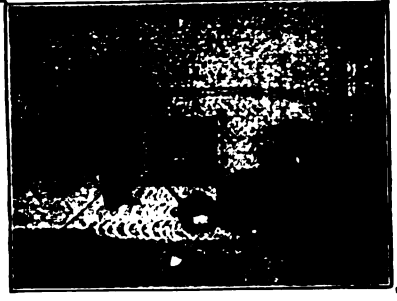


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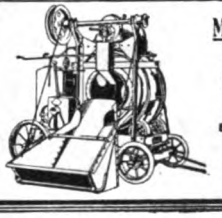
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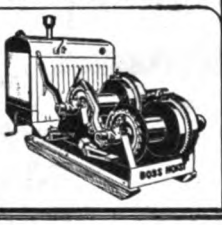
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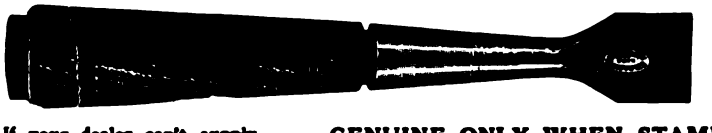


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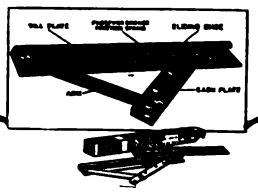
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takes the place of butts and adjusters for swinging and controlling casement sash and transoms. It is easily and quickly applied to single sash, pairs of sash and to multiple sash in wide openings without mullions.

You can buy Whitco from your hardware dealer

In solid brass per set $2.25
In rust proofed steel " " 1.75



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Send all inquiries to nearer Office.

D D C

DENNIS DOUBLE CUSHION

METAL WEATHERSTRIP



STYLE A
Used on sides, upper sash, top and bottom of window.

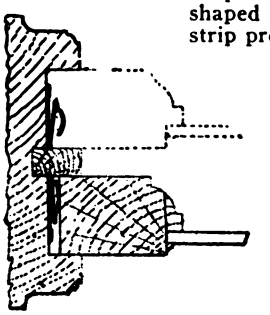
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Because it costs less installed than any other efficient metal weatherstrip. Because the S shaped spring bronze strip provides a weather tight seal that lasts indefinitely.





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A Well Built, Sturdy 1,500 Pound Hoist and 5 H.P. Dependable Motor for..... $240

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Unexcelled facilities, including our own Foundry and specialized machine tools, plus 20 years of "Knowing How" alone make possible such outstanding value.

The Model 10 is a real hoist, having a 33 1/3 percent reserve capacity over its rating. Drum is 6" diameter, accommodating 1,060 feet 3/8" cable, controlled by large, oversize cone clutch, powerful foot brake and pawl.

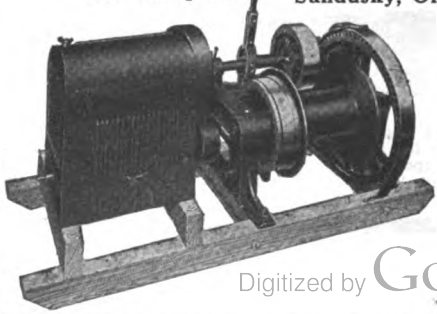
Price, without power, but including skids for mounting engine, winch head, sprockets and chain, only $110.00.

Immediate deliveries from stock. Literature upon request.

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(Established 1905)

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Floor Surfacing the American Universal Way



is easier, quicker, cheaper, better; easier because it is done comparatively without effort; quicker because it equals in speed the work of six fast men; cheaper because it saves the wages of five or six men; better because it is without the imperfections of hand work—the "American Universal" surface is a perfect surface, you can't find a wave, a chatter mark or blemish in an acre of it. The

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FLOOR SURFACING MACHINE

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Completely Equipped
Including Motor

$235.00
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Before You Buy Be Sure and Check Over These Specifications

Tilting Saw Table, 20" wide, 36" long with grooves on each side of saw. Swinging Cut-off Saw cuts all difficult angles by pressing on foot lever. Both hands free to hold stock. Jointer, Saw and Band Saw independently driven. No belts to shift. Right hand construction (the natural way to work). Jointer has safety head with adjustable front and rear plates 24" long. Front plate 8" wide for making shiplap. Motor operates from lamp socket set in rear, away from dust and shavings. Built in any combination for either motor, engine or countershaft drive.

Let us tell you more about our Woodworking Machines.

THE KORNAU MACHINE COMPANY
VANDALIA and GULOW — CINCINNATI, OHIO

Makes Mortising Profitable!

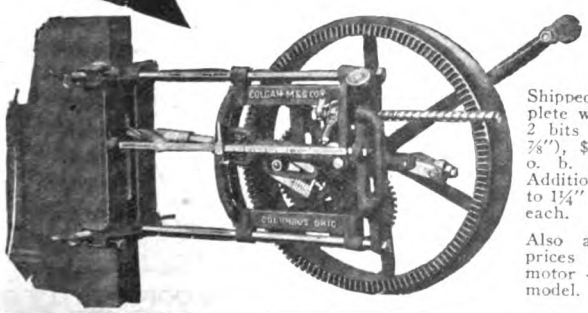
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Cuts a Perfect Mortise in a Minute or Two

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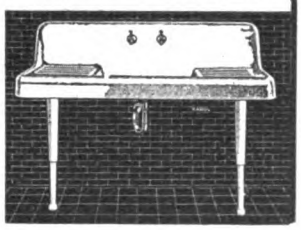
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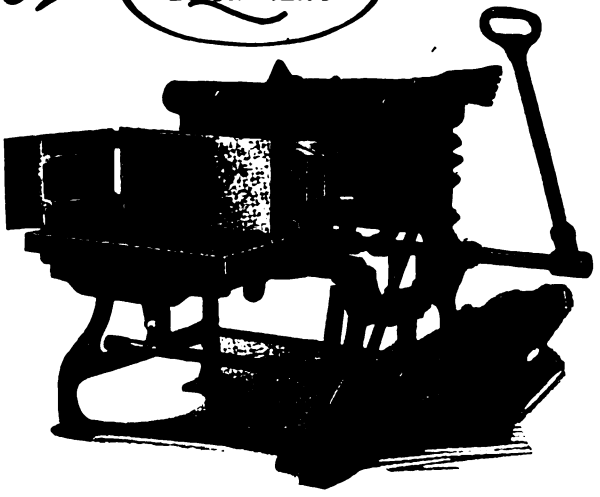
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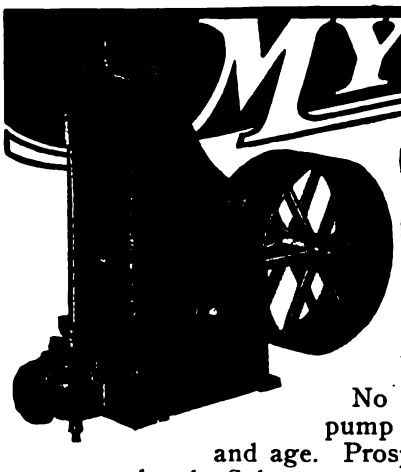


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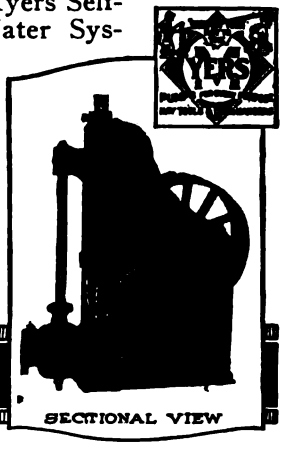
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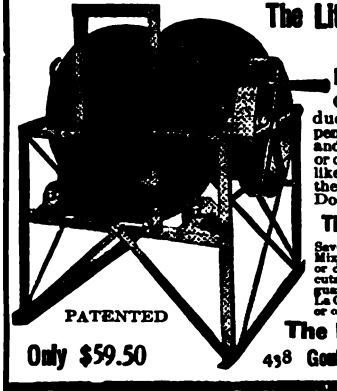
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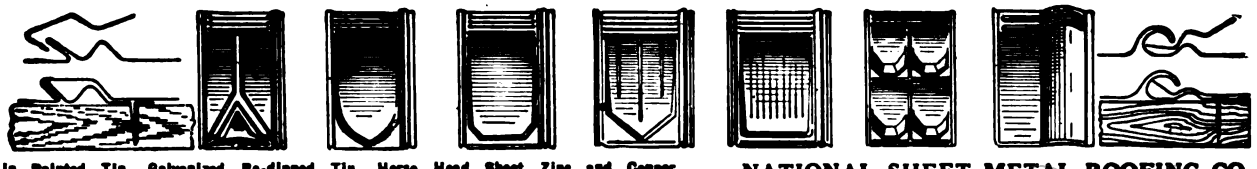
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Saves $—saves wear and tear on bottom of wood columns

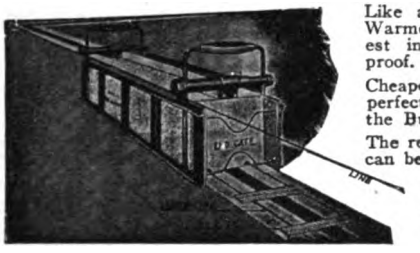
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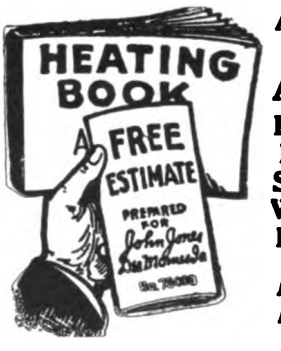


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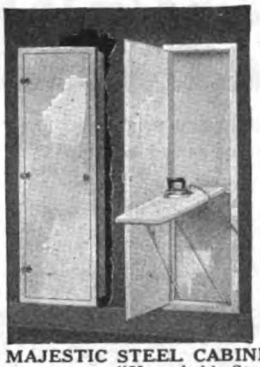
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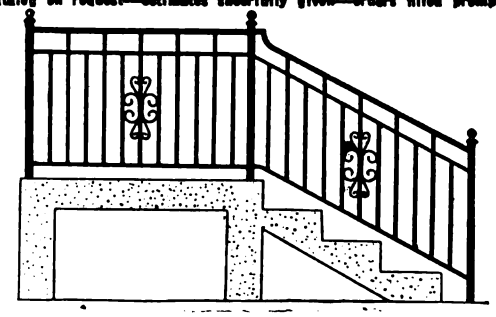
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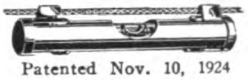
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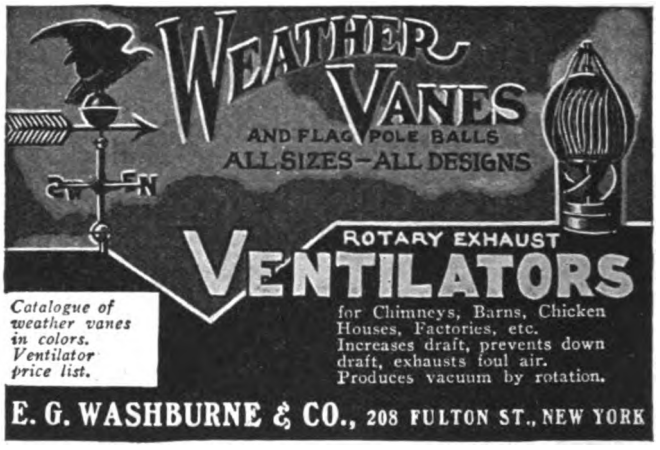
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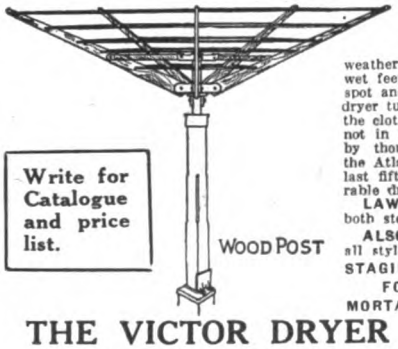


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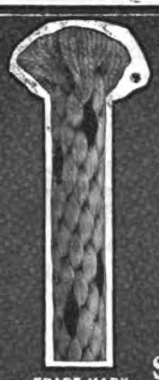
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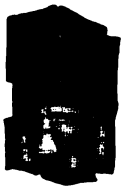
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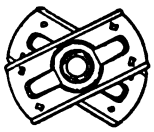
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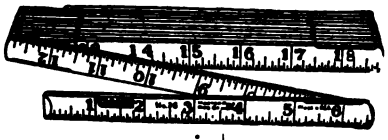
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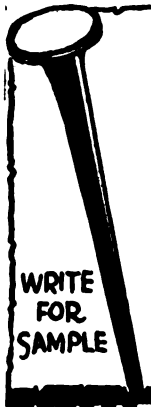
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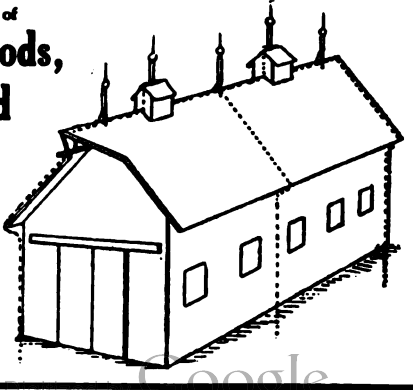
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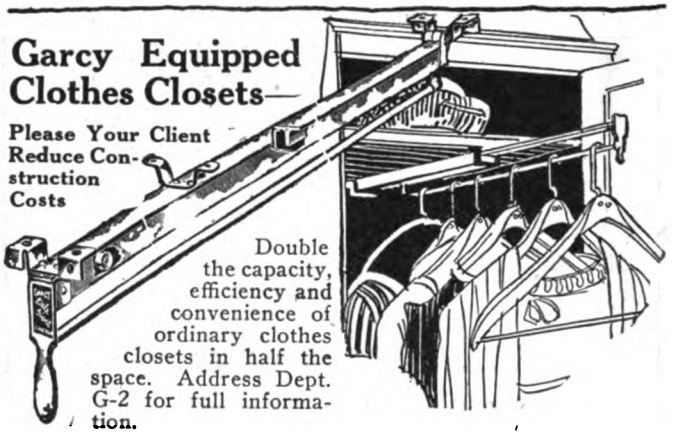
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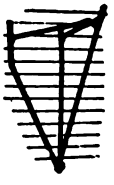
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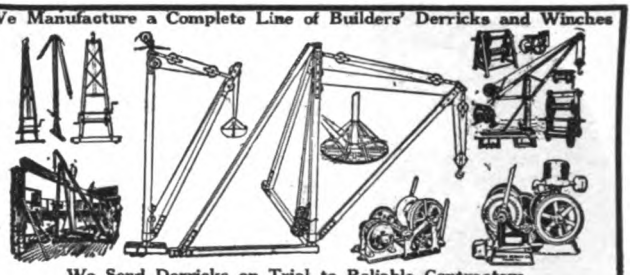
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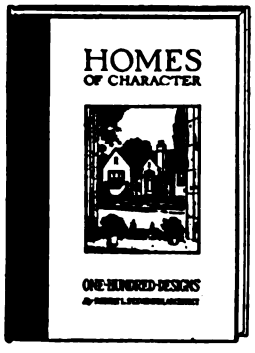
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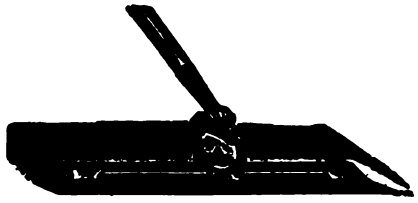
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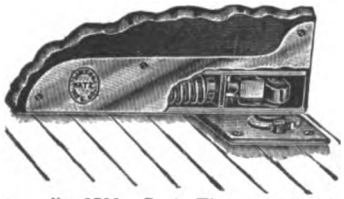
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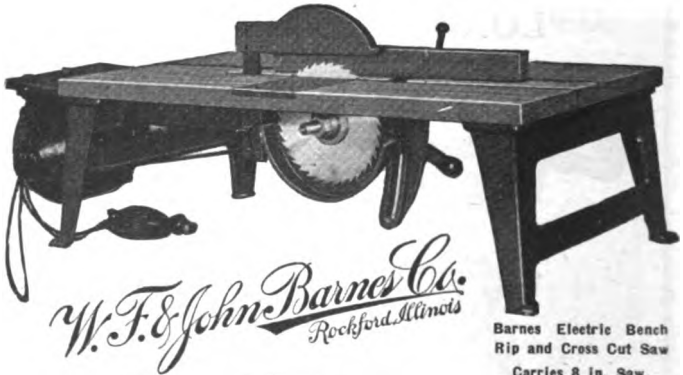


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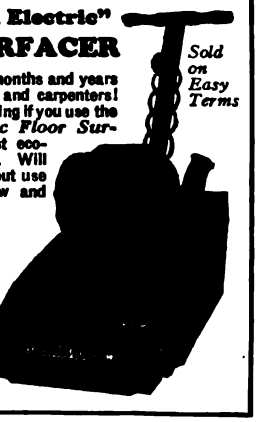
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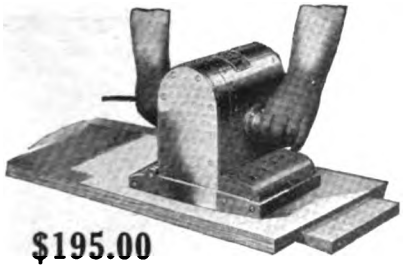
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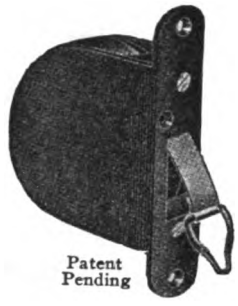
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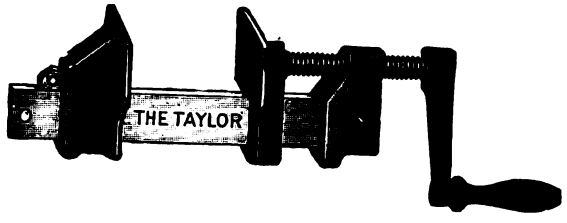
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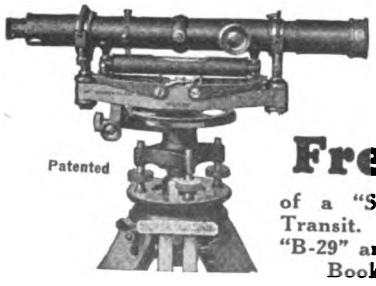


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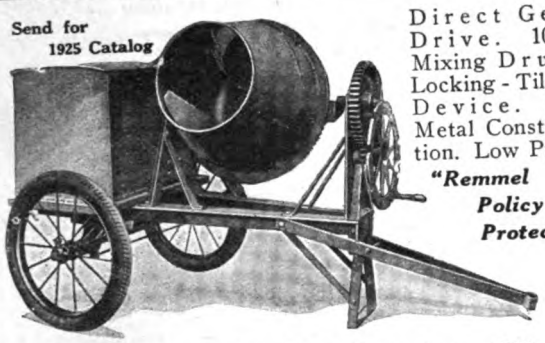
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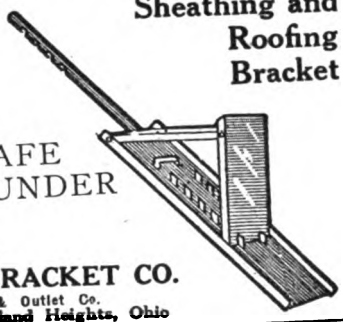
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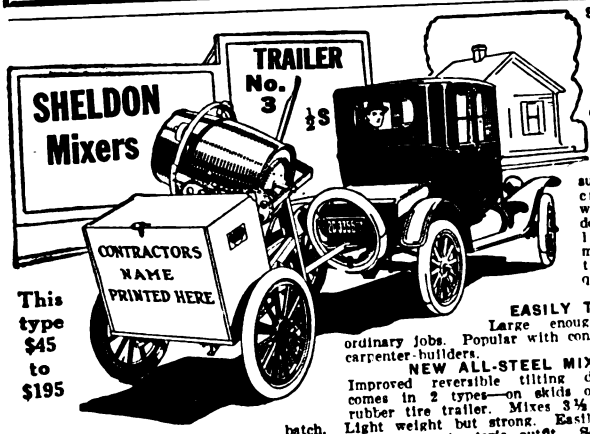
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Alphabetical List of Advertisers

(*See Also Classified List in Manufacturers' Literature, Pages* 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168)

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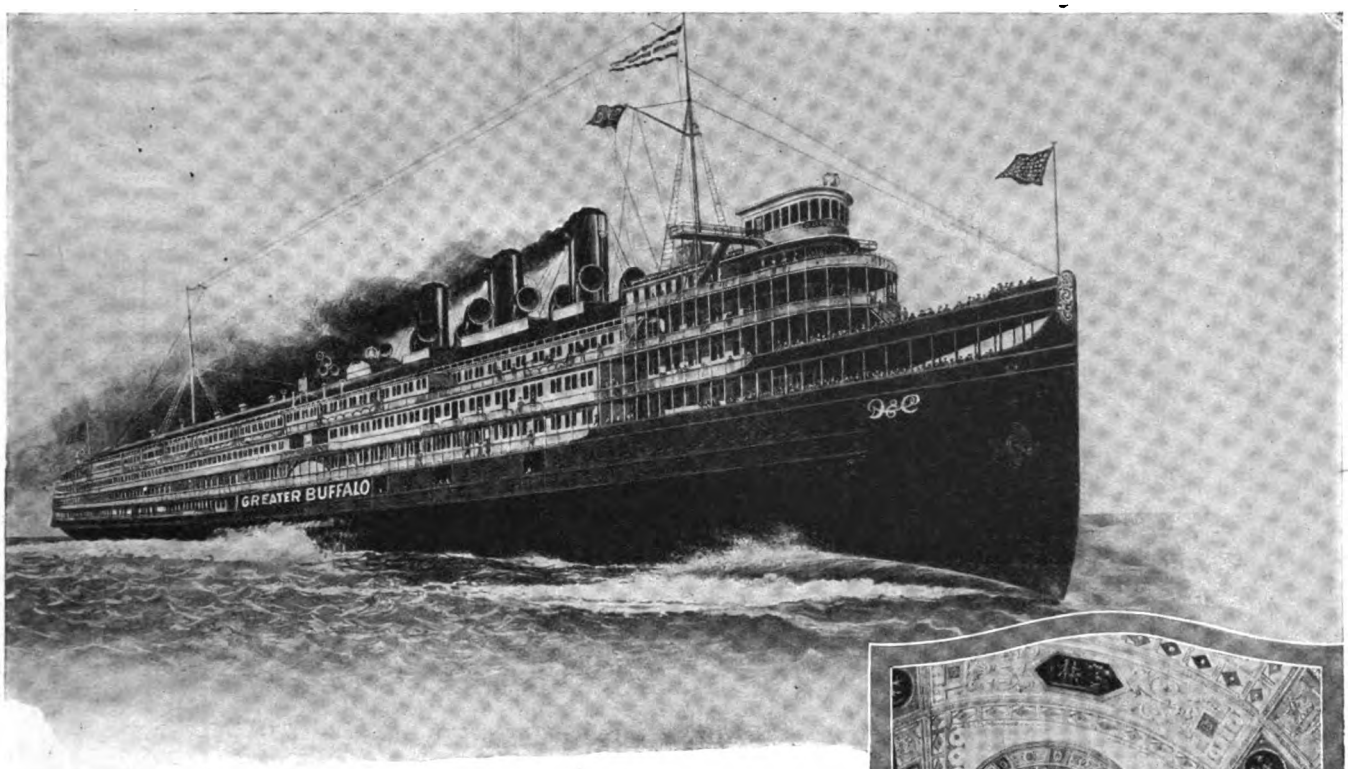
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What Greater Tribute than This for Plastering on Metal Lath?

ANOTHER startling victory has been scored for metal lath as a base for Better Plastering. In the main salons of the "Greater Detroit" and "Greater Buffalo" —the World's Largest Lake Liners—plastering on metal lath is proving the soundness of our claims of crackproofness for this type of wall-and-ceiling construction.

In spite of the terrific stresses, strains and vibrations which a big steamship constantly undergoes, particularly in heavy seas—the magnificent plastered interiors of these palatial ships are as immune from cracks as the thousands of fine buildings and homes *on land,* where metal lath has been proving its crackproof qualities for years. Not even the excessive moisture of the atmosphere can loosen the permanent grip of this plaster on its base of metal lath.

With such an unusual record of success to point to—under conditions infinitely more severe than could ever be encountered *on land,* even though the most abnormal settling strains are encountered—you can have still greater confidence in recommending Metal Lath as the best base for plastering, not only because it is crackproof, but also because of its firesafeness.

In addition to these advantages, it is possible to obtain unequalled artistic effects on walls and ceilings with metal lath and plaster.



Main Salon of the "Greater Buffalo", showing the beautiful ornamental plastering on metal lath; comparable to the finest interiors of the best Theatres and Public Buildings on land. This 550-foot Liner and its sister-ship—the "Greater Detroit"—built for Detroit & Cleveland Navigation Co. by Davy Co., Engineers, Detroit; designed by Mr. Frank E. Kirby, internationally famous Naval Architect.

MILCOR Stay-Rib and Netmesh Metal Lath and "Expansion" Corner Bead and Casings have earned the right to be termed
"The Backbone of Better Plastering"

MILWAUKEE CORRUGATING COMPANY, *Milwaukee, Wis.*
Chicago, Ill. Kansas City, Mo. LaCrosse, Wis.

MILCOR

METAL LATH *for* CRACKPROOF, FIRESAFE WALLS



☐ B. A.

MILWAUKEE CORRUGATING CO.
MILWAUKEE, WIS.

Gentlemen:—Please send information on Better Plastering with Milcor Expanded Metal Products.

Name .....
Address ..... State .....
City .....
Line of Business .....

M.C.Co.

Members of the National Council for Better Plastering. Watch for Ads in Saturday Evening Post and American Magazine

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Economy of the Best

Doorway Equipment Too Vital to Compromise With Quality

Forty-five years ago, when Richards-Wilcox began to manufacture door hangers for "any door that slides," they recognized the fact that a doorway is the *most important* part of any building.

With this thought in mind products bearing the R-W Trademark are of uniformly high quality—they meet the modern demand for perfect service—and represent the most advanced ideas in mechanical construction.

Architects, builders and contractors share the R-W *ideal*—that there is no economy in anything but the *best*—that to experiment with the untried because of price appeal is expensive—that doorways are too important not to equip right in the first place, thereby saving a lot of trouble, and eventually the cost of doing the work over again and doing it *right*—the R-W way.

Upon this policy, and according to this standard Richards-Wilcox have builded their vast business—the largest of the kind in the world. And their policy of 45 years ago is their policy of today.

RICHARDS-WILCOX R-W AURORA TRADE MARK

"Quality leaves its imprint"

Richards-Wilcox Mfg. Co.

"A Hanger for any Door that Slides."

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BIRD'S BUILDER'S BULLETIN

Here are five good reasons why you should use

BIRD'S
Neponset Black
(*Waterproof*)
Building Paper

1 It is durable!

Neponset Black has a glistening, asphalt coated surface that keeps out drafts and dampness and serves as a permanent barrier against the elements.

2 It gives protection!

Neponset Black is thoroughly saturated and impregnated, through and through, with waterproofing asphalt. It makes a watertight covering over roof boards and should be used under slate, tile, metal or asphalt shingles.

3 It saves money!

Neponset Black back of stucco and under clapboards or shingles will make it possible to heat the house more economically than if it is sheathed with ordinary dry paper or not sheathed at all.

4 It is odorless!

Neponset Black may safely be specified for cold-storage use and for ice-houses. It has absolutely no odor.

5 You can get

Neponset Black in a moment's notice because it is in stock everywhere. Ask us to send you complete specifications for its use, or refer to SWEET'S.

BIRD & SON, inc., East Walpole, Mass.

Established 1795

Chicago Office and Plant:
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New York: 295 Fifth Avenue

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The Ideal Builders Sheathing Paper

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In every city and town leading dealers in hardware and building materials handle BERMICO Builders' Sheathing Paper. Send for samples and put them to the test.

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35 Cents

September 1925



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Kansas City, Mo.

CLARK ESTATE OFFICE BUILDING
Kansas City, Mo.

Architects
Geo. B. Post & Sons
New York City
and Kansas City

We offer you a thousand silent partners

WHAT prevents you from putting up your building? Finances? The Miller Plan is waiting to bring to you financial aid from a thousand silent partners. Business executives, salaried workers and professional people—men and women in all walks of life—who extend to the builders and owners of hotels, office structures and apartment buildings financial help by investing in Miller First Mortgage Bonds.

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1. Periodic disbursements are made as the building is constructed.
2. Building is sufficiently financed at the outset.
3. This financing is secured by a first mortgage on the land and building.
4. Convenient payments, out of income from the completed structure, take care of interest and reduce amount of indebtedness.
5. Financing less expensive under the Miller Plan. No shopping for money. No renewals of short-term mortgages.
6. Best type of building is produced. The architect's ideas are carried out.
7. By the simple operation of the Miller Plan, the owner is relieved of the worrisome details of the ordinary loan.

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$250,000 *to* $1,000,000 *and more*

We are ready to place at your disposal any amount from $250,000 to $1,000,000 and more, which will be secured by a first mortgage on your land, building and equipment.

Find out more about this Miller Plan of Financing. Let us send you letters from owners and builders for whom we have negotiated first mortgage bond issues. Write for the details of the "Miller Plan of Financing." Ask for Booklet 701-L.

G. L. MILLER & CO.

INCORPORATED

Northern Headquarters
30 East 42nd Street
New York City

Southern Headquarters
Hurt Building
Atlanta, Ga.

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Bishopric Row—Bishopric Stucco over Bishopric Base in this row of Rochester, N. Y., houses

The beauty of BISHOPRIC in Color and Texture means Increased Business for the Builder Because Every Job Sells Another



The Roll and the Drum!

Bishopric Base is shipped in rolls 100 square feet to the roll. It is easily handled, quickly cut to desired size and there is no waste.

Bishopric Stucco is packed in airtight metal drums preventing deterioration and loss, either in transit or storage, or on the job.

Economy, durability, permanence, beauty—all of these are possible when you build with Bishopric.

Houses built of Bishopric delight the eye, please the purse and make good in every way from low first cost and minimum of upkeep, to added sale value.

Briefly, *Bishopric Stucco* over *Bishopric Base*

INSURES	IS
Least cost for labor	Waterproof
Least cost for material	Weatherproof
Speed in construction	Fireproof
Lowest maintenance cost	Rich in insulation
Strength—stability—endurance	

You, as a builder, know what every one of these qualities means to your profit, to the satisfaction you wish your client to experience, and to your success as a builder of STRUCTURES THAT SATISFY.

Therefore, you need to know ALL about Bishopric Stucco over Bishopric Base. It is a wonderful story, this stupendous success of Bishopric products. Let us tell you ALL about it.

Write for Bishopric Booklet "For All Time and Clime"—Beautifully illustrated—working details—specifications—Let us help you with your Building Problems.

Bishopric is Sold by Dealers Everywhere

The BISHOPRIC MANUFACTURING CO.
NEW YORK CITY 11 EAST AVE CINCINNATI, OHIO CINCINNATI OTTAWA CANADA

The BISHOPRIC MFG CO OF CALIFORNIA
LOS ANGELES

BISHOPRIC STUCCO over BISHOPRIC BASE

"A Complete Wall Unit for all Time and Clime"

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Building Age and National Builder

With Which is Incorporated
The Permanent Builder and The Builders' Journal

Registered U. S. Patent Office

Vol. XLVII, No. 9 — SEPTEMBER, 1925

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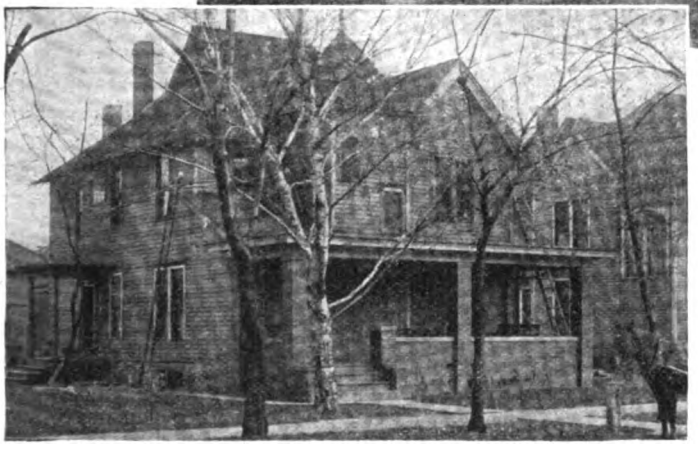
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THE transformation that Face Brick Veneer can make in an old house is strikingly illustrated by these two pictures of a residence at Streator, Illinois. Besides beautifying his home, the owner has materially increased the value of his property, and has eliminated future repair and painting bills.

Increasing the Investment Value

of Old Frame and Stucco Houses

HOME owners everywhere are beginning to realize that it is expensive to keep up frame and stucco houses. The constant expense of painting and repairs, and their depreciation from the day they are built make them a much less desirable investment than a Face Brick house.

The way out for owners of frame and stucco houses is to veneer the old house with Face Brick. At one and the same time they eliminate needless future expense, make the old home more attractive and increase the value of their investment.

Many contractors are finding it pays to suggest such remodeling jobs to their customers. Theatres, banks, stores and churches offer as big a field as homes.

Our free booklet, "A New House for the Old," tells the contractor all he wants to know about Face Brick veneering, and also gives complete instructions for doing a good job. Send for a copy today.

THE AMERICAN FACE BRICK ASSOCIATION

1764 Peoples Life Building · Chicago, Illinois

A·F·B·A
USE FACE BRICK
—it Pays

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Beautiful Oak Floors Don't Just Happen





World's largest apartment building, at 270 Park Avenue, New York City, floored throughout with Ritter Parquetry Oak Flooring—herringbone pattern (shown above). Dr. Paterno, owner; Warren & Wetmore, architects; Thompson-Sterrett, builders.

A LARGE number of architects and builders, who have failed to secure the beauty which they sought in Oak floors, even after having specified the *best* grade shown in standard grading rules, have wrongly concluded that obtaining beautiful floors is a matter of chance.

Many of these same builders, after having all the facts about floor beauty placed before them, have learned that Oak floor elegance largely depends upon the timber growth from which flooring is made; they have learned that the high, well drained slopes of the Appalachian mountains produce Oak possessing beauty of grain and uniformity of texture and color.

This is why builders throughout the country are now annually specifying millions of feet of RITTER flooring, all of which is made from Appalachian Oak.

The brand: "W. M. Ritter Lbr. Co." is stamped on the back of each piece. For further information, consult your lumber dealer or write the W. M. Ritter Lumber Company, America's largest producer of hardwoods, at 115 East Rich Street, Columbus, Ohio.

NOTE: Despite the superiority of Ritter Appalachian Oak Flooring, the same qualities which make possible greater beauty, also make it more economical to lay, nail and finish. This saving, all things considered, more than offsets the slight difference in initial cost.

RITTER
APPALACHIAN OAK
FLOORING

W. M. RITTER LUMBER CO.,
Columbus, Ohio.

Gentlemen:
Kindly send me, without obligation, your booklet giving the reasons for the superiority of Ritter Appalachian Oak Flooring and other valuable information on how to properly lay flooring.

Name.....

City.....

Address.....BA-9

Mail the coupon for complete information regarding Ritter Appalachian Oak Flooring

Technical Data on Laying Oak Floors

4. How to Lay Strip Flooring Properly

Before a hardwood floor is laid the sub-floor should be **perfectly** dry and swept clean of all shavings, discarded nails, dust and other refuse.

On the ground or first floor of a dwelling it is recommended that a good grade of moisture resisting paper be used over the sub-floor in non-fireproof construction to prevent the hardwood floor from absorbing moisture from the sub-floor and to keep the dust from coming through from the basement. The use of moisture-proof paper over the sub-floor on the second floor is of no particular advantage. Sometimes sound-deadening felt is used on the second floor, but its effectiveness is often questioned unless extreme precaution is taken to avoid the communication of sound through the nails and joists.

Framing in Fireplaces

All fireplaces should first be boxed or framed in with one or more strips before the flooring is laid. These strips should be mitered at the corners as indicated in Fig. 1. When this has been done, the laying of the hardwood floor may be started. For most satisfactory results it should be laid at right

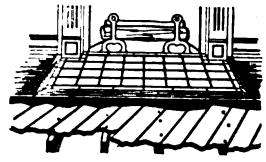


Figure 1

angles to the joists. It is important that at least ¼" space be left on all sides of the room between the wall and the hardwood floor to allow room for the expansion of the finished floor, should it absorb some dampness. This space is covever by the quarter round or base moulding.

Nailing Hardwood Flooring

All tongued and grooved flooring should be blind nailed. Square edged flooring should be face nailed. The use of improper nails can spoil the best flooring. Practice has shown that the following kinds and sizes of nails will give the best results.

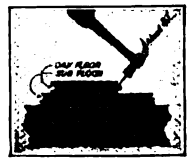


Figure 2

13/16" Tongued and Grooved Flooring—7d Casing Nails spaced not more than 16" apart.

3/8" Tongued and Grooved Fooring—4d wire finishing nails spaced not more than 8" apart. Some floor layers prefer 3d cement coated wire nails for ⅜" flooring.

5/16" Square Edge Flooring—2 1" No. 15 cement coated brads, diamond point, spaced not more than 8" apart.

Care should be used to avoid splitting the tongue of the flooring when nailing, as this is the one cause of squeaks.

How to properly surface hardwood flooring preparatory to finishing will be discussed in the October issue of this journal.

See **Sweets** and **American Architect** Specification Manual for complete data.

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ST. JOHN'S CHAPEL is very beautiful now. But its charm will be still more appealing when mellowed and refined by time.

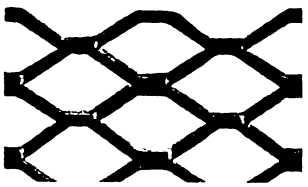
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Well-informed architects concede the value of Metal Lath in permanently preserving the beauty and pristine firmness of interior or exterior plastering. And a great many prefer the NORTHWESTERN diamond meshed laths as the most satisfactory base and reinforcing for both their plain and ornamental work.

May we send our "Recommended Specifications," with samples, including the new PLASTA-SAVER?

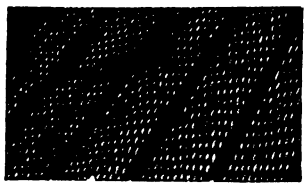
North Western Expanded Metal Co.
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NORTHWESTERN Expanded METAL LATH



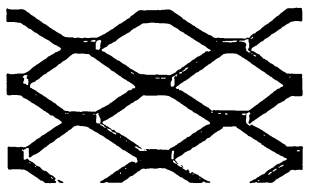
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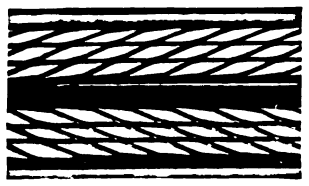
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3/8" U-Rib lath. For suspended ceilings, partition work, in connection with steel pans, cored floors, etc. Very rigid. Ribs spaced 4" apart. Sheets 24"x96". Wgt. lbs. sq. yd.—4.0, 3.5, 3.0.



20th CENTURY

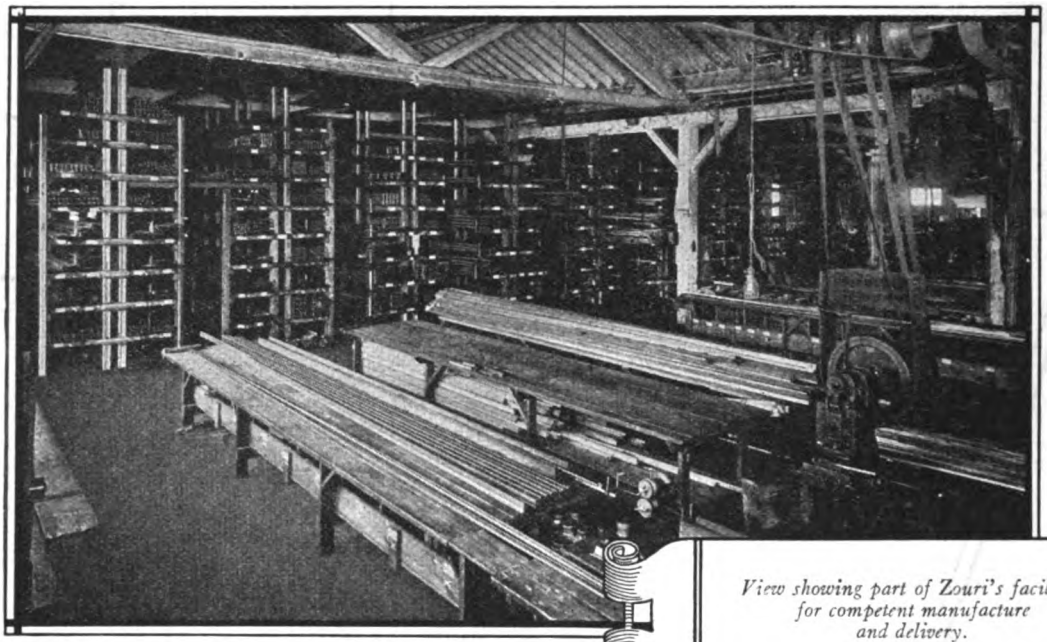
Flat lath, diamond-meshed copper bearing. Especially adapted for warm damp climates, sea coast, mfg. centers, and with patent plasters. KNO-BURN mesh. Wgt. lbs. sq. yd.—3.4, 2.5.



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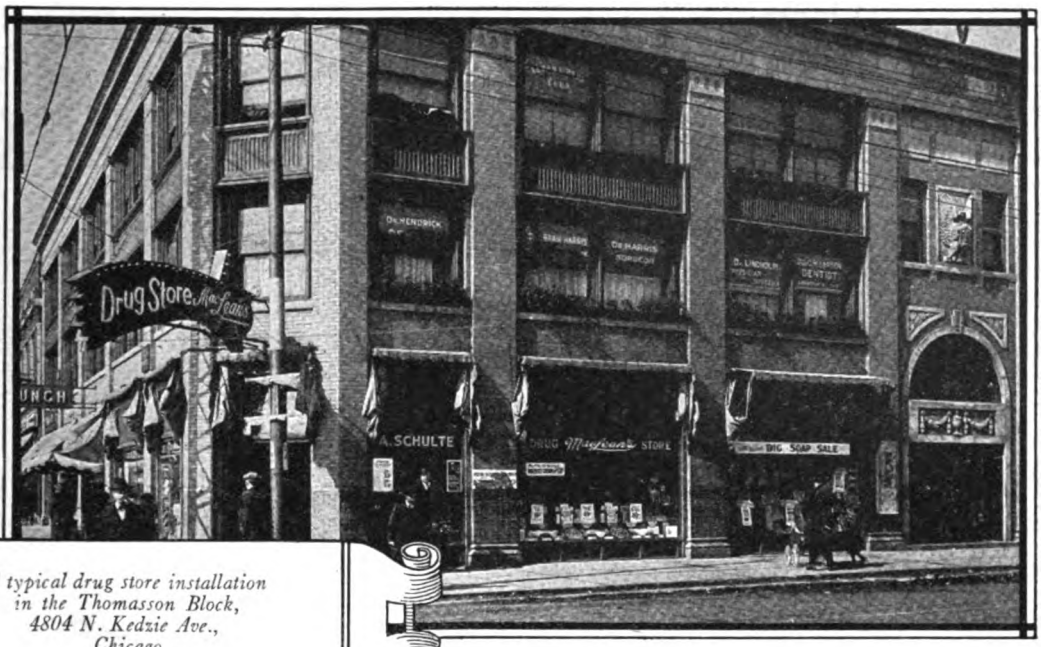


Useful detail sheets and data book

This handbook has been written for architects, contractors and builders. It deals primarily with construction and gives plans and diagrams showing best approved methods of window and display space arrangement. The detail drawings will be welcomed by specification writers. A word from you will bring them—promptly.

ZOURI KEY-SET STORE FRONT CONSTRUCTION

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A typical drug store installation in the Thomasson Block, 4804 N. Kedzie Ave., Chicago

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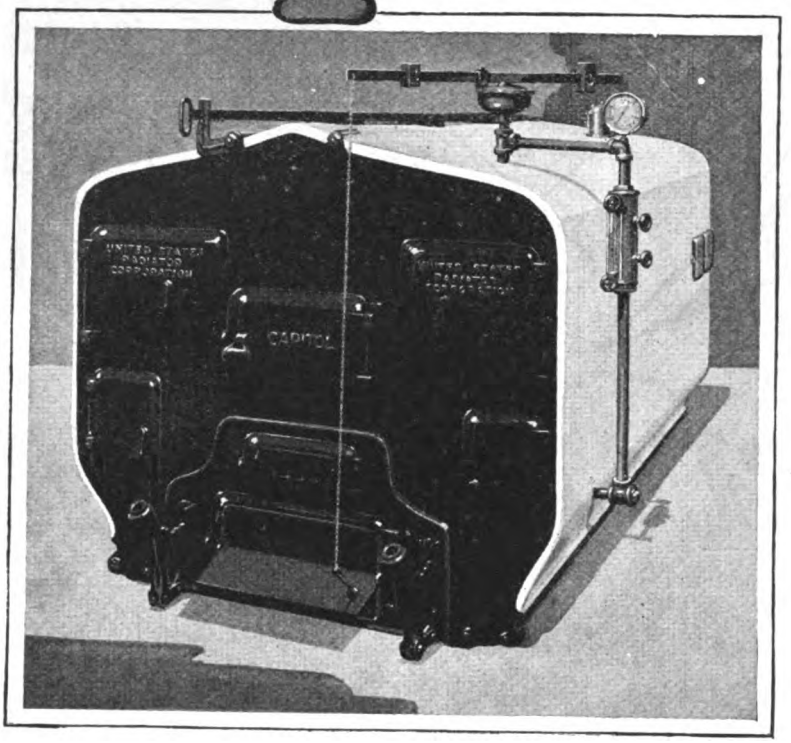
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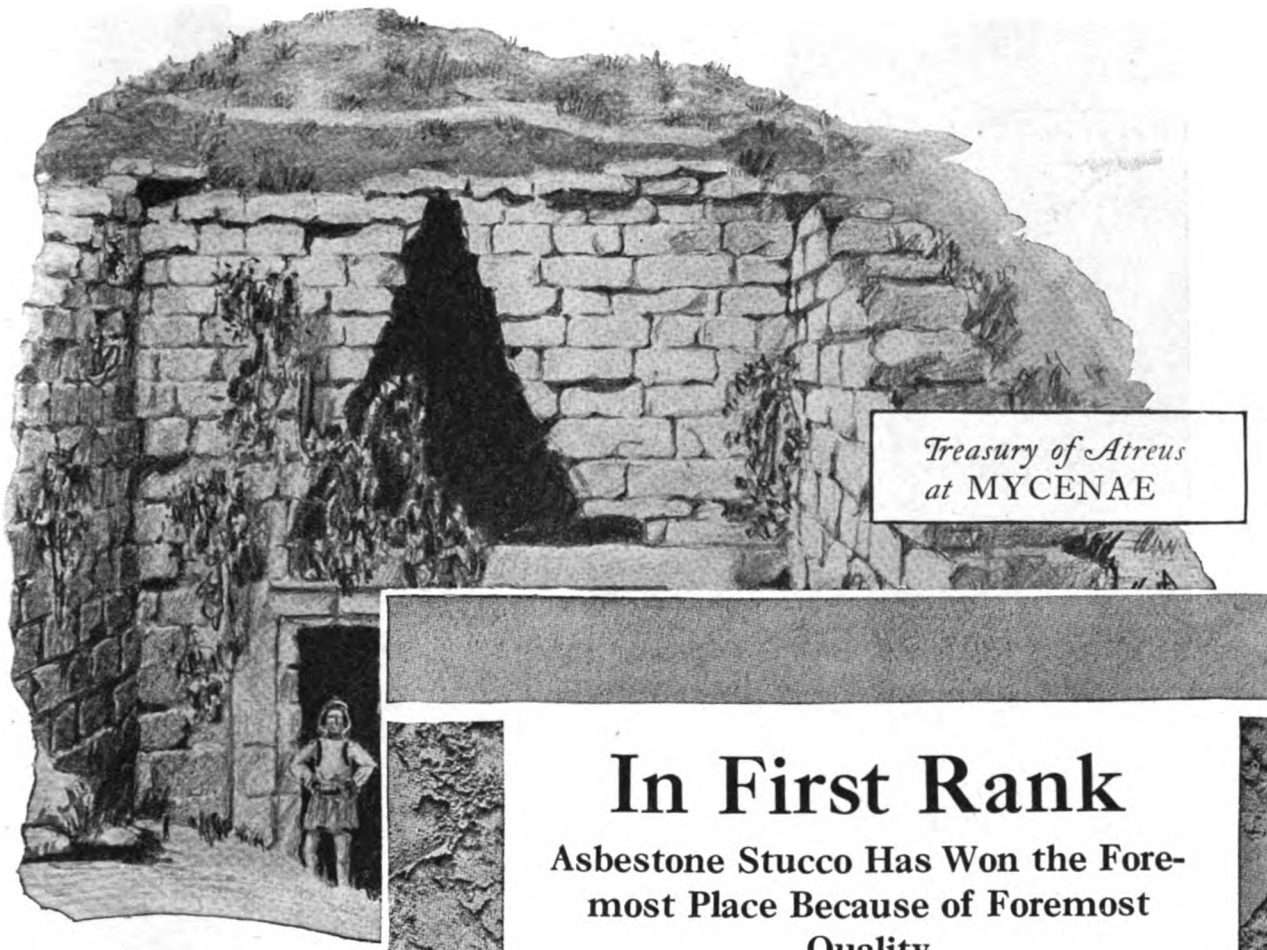
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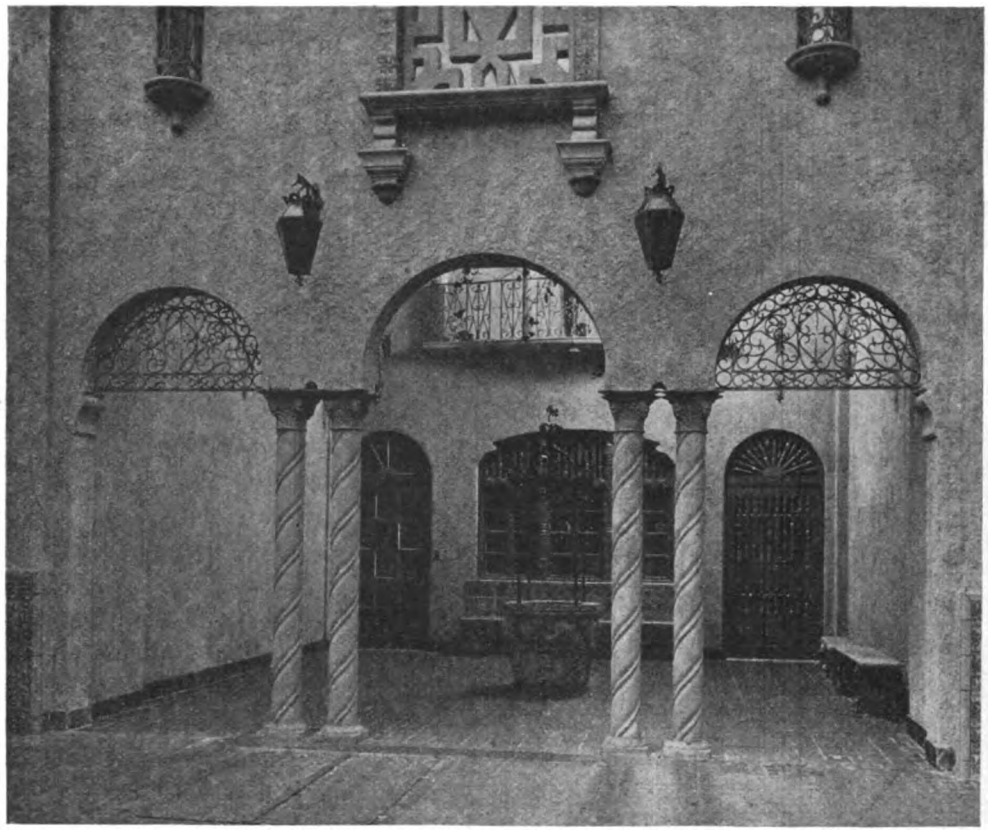
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Entrance to the Coral Gables Exhibit at the Architectural Exposition in Grand Central Palace, New York. H. George Fink, Architect. Finished in Morene on wooden columns, composition caps, antique mosaic fountain over wood, all walls and ceiling over wall-board.

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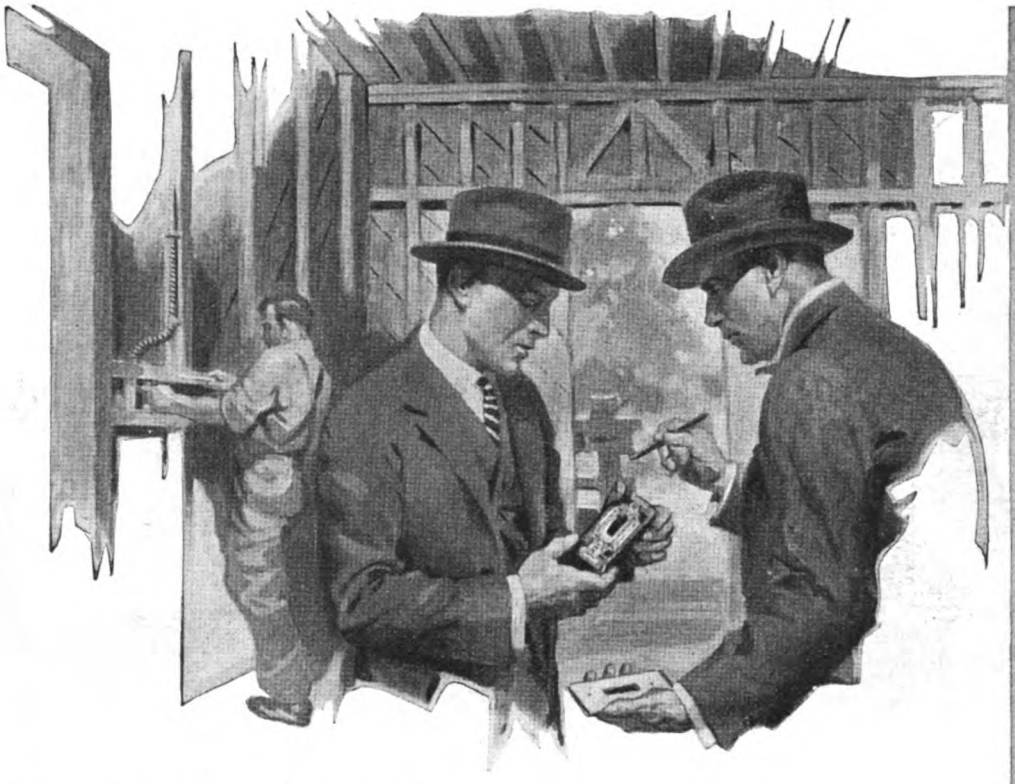
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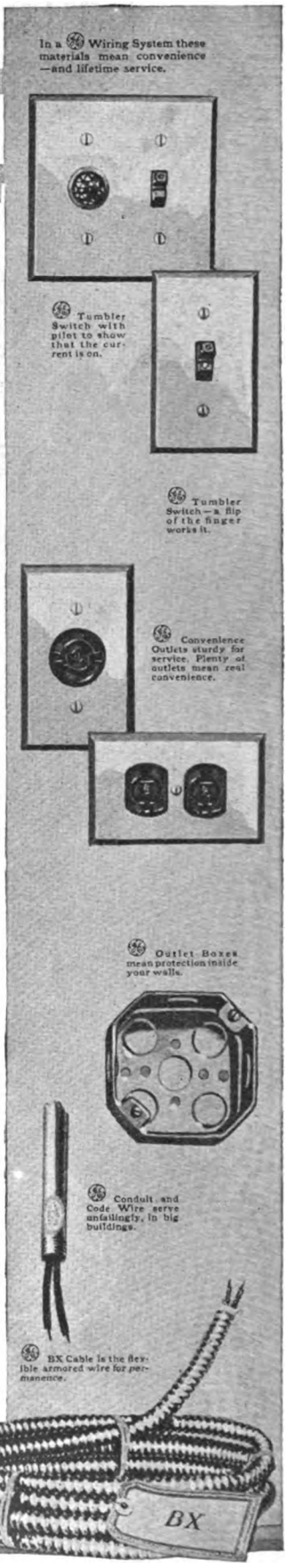
Standing Seam Horse Head Zinc Roofing is shipped in casks complete with nails, Zinc for clips, and full instructions. Each cask contains enough Zinc to cover one roofing square (one hundred square feet) with full allowances for seams and laps.

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If it's a house of brown brick

Here is the roof Richardson recommends

It makes a rich-looking, substantial home, this popular mottled brown brick of rough texture—*with the right roof and trim colors.*

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A wise choice of roof and trim colors, on the other hand, makes it one of the most attractive homes imaginable.

For there lies your greatest opportunity to add to the beauty of any home.

On such a house Richardson recommends this color scheme. A roof of *antique brown*, a brown as rich and mellow as age-old brick—of *heather purple*, the purple of distant hillsides—and of *opal*, where jade green slate flakes, combined with the rare weathered brown, add a touch of cooler color. Here is a roof that blends right in with the house itself, both in texture and color. And notice how skillfully the roof-colors are reflected in the green trim and purple-blue shutters. Details like this are the making of a beautiful effect.

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With them you can make the roof one of the most effective units of your decorative scheme. One of them can give *your* home just the distinction and charm you have always wanted.

To help you choose

To help you choose the roof which will make the most of this opportunity we have prepared an authoritative booklet, *What Color for the Roof?* In it, there is page after page of beautiful homes in different architectural styles, all in color to show the most tasteful effects in body, trim and roof combinations. Interestingly explained, too, are the principles of all good color schemes.

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☐ Check here if you want the free booklet, *A Richardson Product for Every Roofing Need*

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50% thicker than the ordinary roof

The Multicrome Roof is built of Super-Giant Shingles—extra large, extra heavy. Its 50% greater thickness adds both beauty of texture and years of endurance. Its base is sturdy, long-fibre Richardson felt. Its waterproofing is Viskalt—99.8% pure bitumen, especially vacuum-processed. Its surface is slate in close, overlapping flakes—further protection against weather and fire.

This roof gives the maximum roof value at a moderate price. It is economical to lay and equally good for new or over-the-old-roof jobs

RICHARDSON ROOFING

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A new roofing book FREE *to builders*

Your greatest opportunity to add to the salability and actual cash value of the houses you build lies in a wise choice of roofing colors.

This new book, *What Color for the Roof?* will help you make the most of it.

In it, you will see how Richardson has developed in the slate-surfaced roof, colors of a beauty hitherto obtainable only in the most expensive roofing materials.

Durable, too, these roofs of fadeless colors, and moderate in cost.

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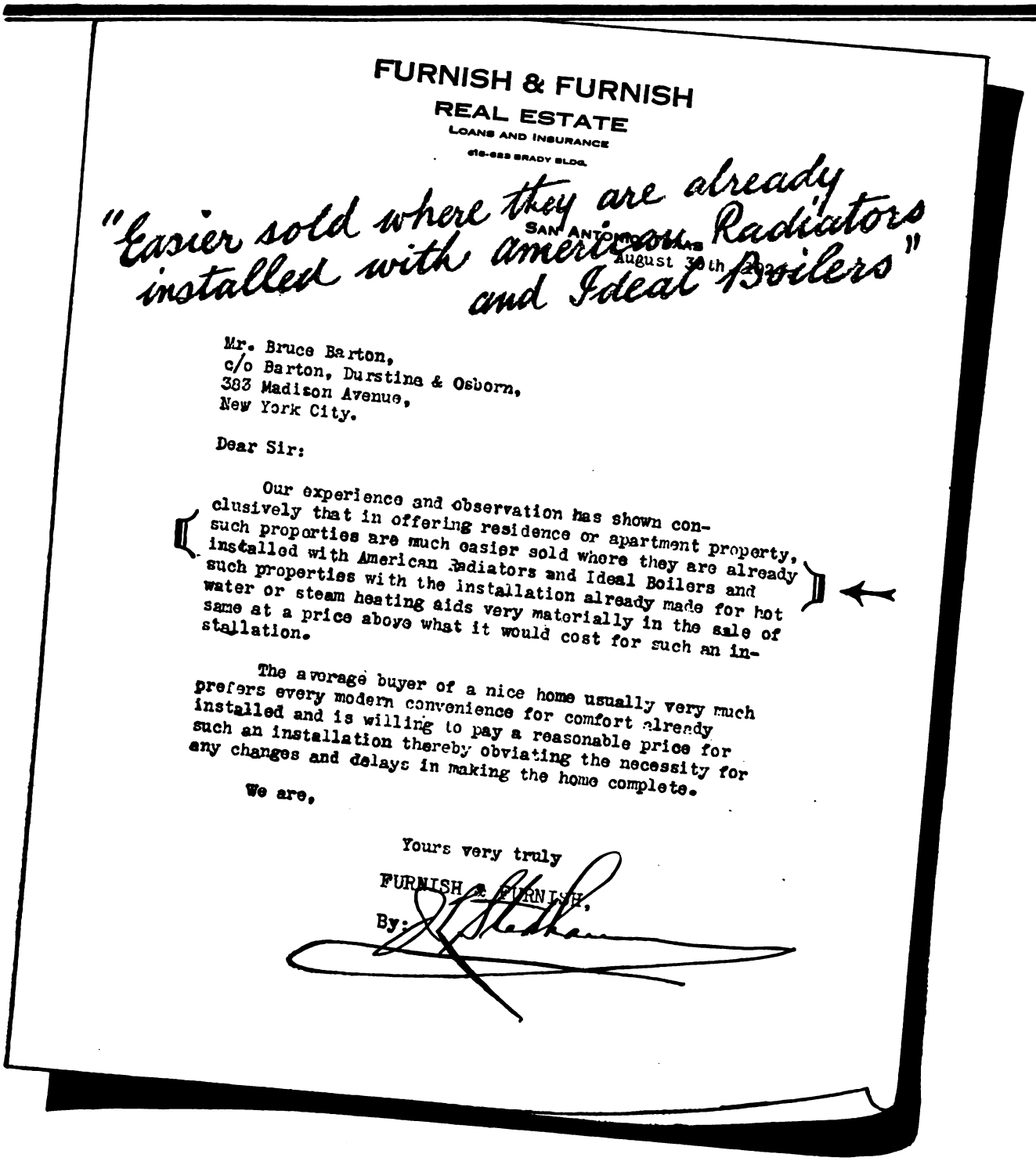
And it includes the Richardson Harmonizer, which many builders have called the most practical selling help ever devised.

Read more about it there. And just attach the coupon to your letter-head for a *free* copy of this powerful building and selling help.

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FURNISH & FURNISH
REAL ESTATE
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616-622 BRADY BLDG.

"Easier sold where they are already installed with American Radiators and Ideal Boilers"

SAN ANTONIO, TEXAS
August 30th 1924

Mr. Bruce Barton,
c/o Barton, Durstine & Osborn,
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Dear Sir:

Our experience and observation has shown conclusively that in offering residence or apartment property, such properties are much easier sold where they are already installed with American Radiators and Ideal Boilers and such properties with the installation already made for hot water or steam heating aids very materially in the sale of same at a price above what it would cost for such an installation.

The average buyer of a nice home usually very much prefers every modern convenience for comfort already installed and is willing to pay a reasonable price for such an installation thereby obviating the necessity for any changes and delays in making the home complete.

We are,

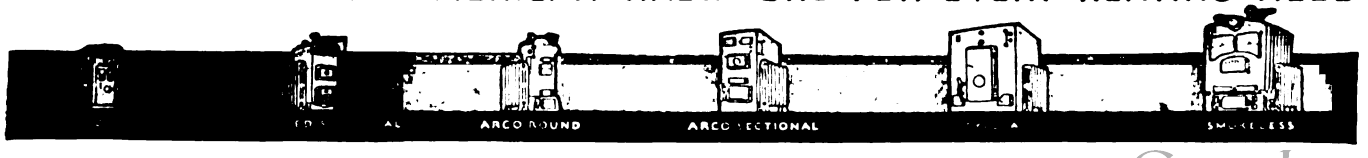
Yours very truly
FURNISH & FURNISH,
By:

Even in the milder climate of Texas, realtors and builders find that IDEAL Boilers and American Radiators are salesmen!

AMERICAN RADIATOR COMPANY

Dept. T212, 1807 Elmwood Ave., Buffalo, New York *Sales Offices in all principal cities*

IDEAL BOILERS AND AMERICAN RADIATORS FOR EVERY HEATING NEED



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A Combination Bath Tub

—PATENTED—

One size only, for all size people

Regular Bath, Seat Bath, Shower Bath, Foot Bath, and Child's Bath, all in one-piece

Made of Semi-Vitreous Porcelain Ware

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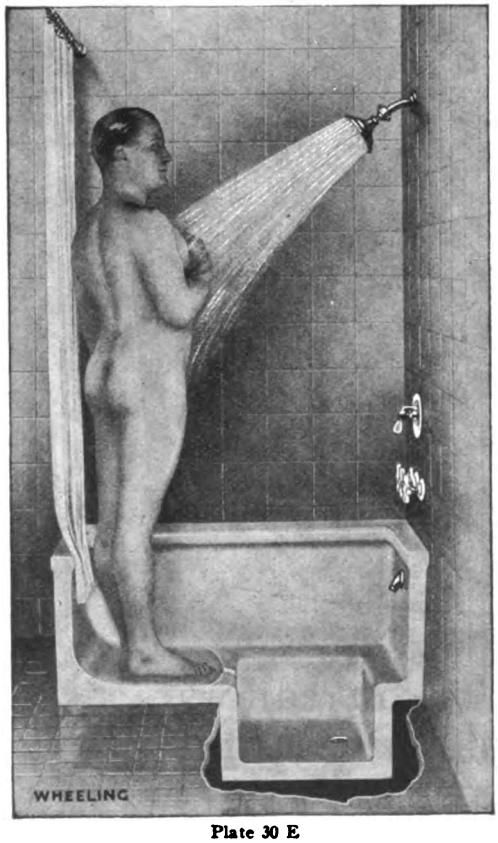


Plate 30 E

Semi-Vitreous Porcelain Ware, 44x30 inches to tile in right or left hand corner, or in recess. Glazed white all sides. Only one size made.



Plate 10 E

Enameled Iron Ware, 44 x 30 inches to tile in recess only. Enameled white front. Waste in foot section either right or left hand end. Only one size made.

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Mr. T. H. Kelley, 158 E. 188th St., New York City, says:

"I had installed in my house several months ago, one of your Combination Bath Tubs fitted complete with shower and curtain, and I cannot say too much in recommending this fixture and am glad I decided on this new type of tub, as it gives the bathroom features that other pattern tubs do not have.

"I am a man weighing two hundred pounds and the tubs have ample room for one of my size to properly bathe.

"You are at liberty to use this letter in any way to advance the use of this fixture, as I cheerfully recommend this tub to anyone, and if I were to equip another bathroom for my own use, or for sale, I would use this Combination Tub."

Dr. Herman N. Bundesen, 7414 Oglesby Ave., Chicago, Ill., installed one of these tubs in his new residence a year ago, and remarks as follows:

"It is the best fixture I ever saw, and I would not be without it for anything. It is most economical in the use of hot water, and this is a decided advantage where instantaneous gas water heaters are used. Furthermore, it is an ideal tub where there are children, as it can be used to great advantage as a foot bath when the children come in dirty from playing. The shower feature is also an advantage which I greatly enjoy. In fact, this tub is most acceptable in every way, and I most thoroughly recommend this fixture."

Mrs. Bundesen is equally as enthusiastic as the Doctor, and states:—

"It is a wonderful bath."

Sold through jobbers of Plumbing Supplies
Write us for descriptive circular

Wheeling Sanitary Mfg. Co.
Wheeling, W. Va.

Vitreous China-Closet, Bowls and Flush Tanks of all kinds.
Semi-Vitreous Porcelain Baths, Sinks, Lavatories, Drinking Fountains, Urinal Stalls, etc.
Enameled Iron—Baths on feet and on base.

Branch Office and Show Room: 315 Wrigley Building, Chicago, Illinois
Williams & Devitt Warehouses, Harrison, N. J., and 146th and Exterior Sts., New York City

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Public Confidence Is The True Test Of Merit

Thousands of GMC users express their faith in GMC by the surest sign—repeat orders. They know that GMC never sits back and rests in self-satisfaction every time it does a good job. GMC keeps right on working hard to do a still better job of furnishing high-grade performance with economy. These haulage buyers use GMC's continuous advance in the furthering of their own progress. Why don't you investigate GMC's performance records?

GENERAL MOTORS TRUCK COMPANY
Division of General Motors Corporation
Pontiac, Michigan

General Motors Trucks

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Distinctive shingles that individualize a house

THE fascinating color effects of Preston Hexo-Diamond Sunset Shingles transform even a house of commonplace architecture and make it a place to be admired. The soft, mellow tints due to the natural colors of the surfacing harmonize with any type of architecture, whether it be a mansion costing many thousands or a simple cottage.

Preston Shingles are made in three thicknesses: Heavy Standard, Extra-Heavy and Massive. The Massive is much thicker than any other slate-coated, asphalt shingle on the market, being approximately one-third thicker than a Standard No. 1 slate shingle. This thickness not only adds to the life but also to the appearance of a Preston Roof. In addition to the Sunset blend, Preston Shingles are made in three solid colors: red, blue-black and green.

Write us today for the book, "The Magic Touch of Preston Shingles." At the same time we will give you the name of a dealer who can supply you.

KEYSTONE ROOFING MANUFACTURING COMPANY
Dept. C-9, York, Pennsylvania

MICROSCOPIC ENLARGEMENT



The wearing qualities of Preston Shingles are dependent not only on the quality, but also on the quantity of asphalt which each shingle contains. If you examine the edge of a Preston Shingle you will notice that it is practically a solid body of asphalt. This feature of Preston Shingles accounts for their remarkable ability to withstand all kinds of weather.



1. The design of the patented Hexo-Diamond Shingle produces at least two layers over the entire roof.

2. The unusual thickness of Preston Shingles makes a durable roof.

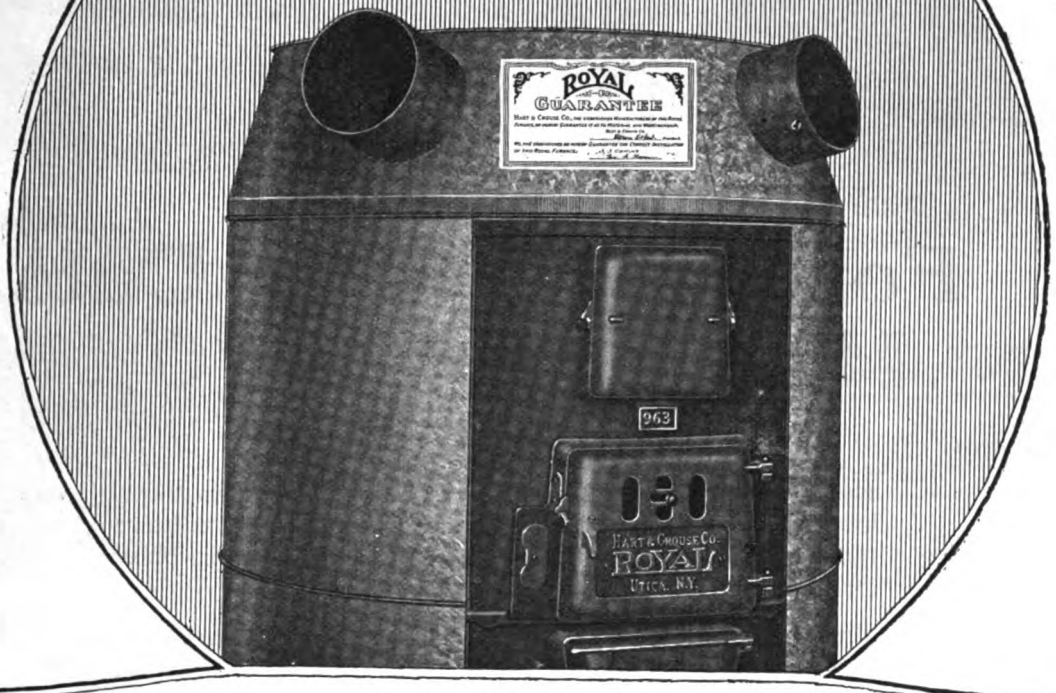
3. This distinctive design exposes two thicknesses at the butts, thereby creating the definite shadow line demanded by architects.

Preston ROOFING

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GUARANTEED—at no higher cost!

ROYAL Furnaces are installed by CERTIFIED DEALERS.

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Hart & Crouse Company and the CERTIFIED DEALER unite to furnish a bond of Guarantee.

Send for catalog and full particulars.



Dealers Everywhere!

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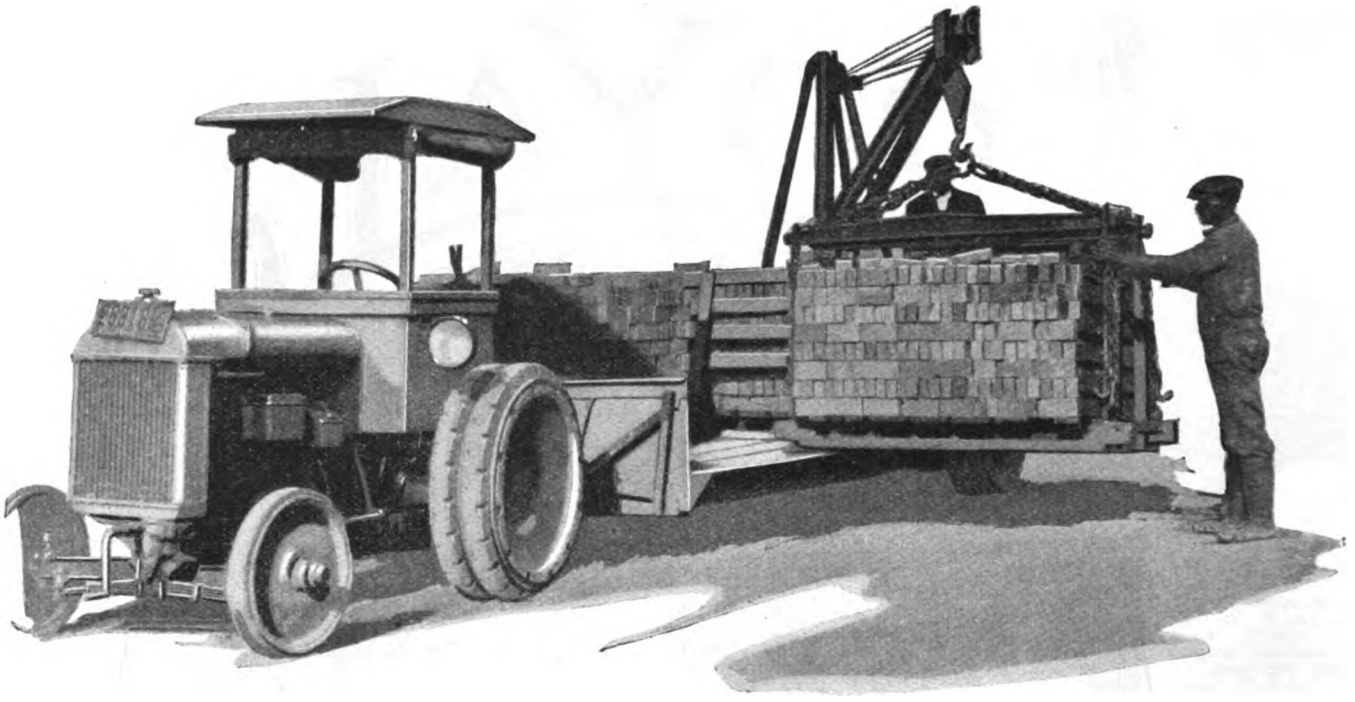
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Fordson Tractor Cuts Hauling Costs 70%

By using a Fordson tractor with hoist for *loading*, unloading as well as hauling bricks operation costs were reduced from $2 per M. to 60c. This occurred in New Orleans with The Standard Brick Co.

This outfit proved so satisfactory on a trial that a second unit was ordered and a third planned for the near future.

Your business may be such that you are paying excess charges for power work which could well be reduced by the use of a Fordson tractor with special equipment. Hundreds of other concerns have learned this from their nearest Authorized Ford Dealer and are now enjoying the advantages of lowered costs and resulting higher profits. Call on him for a solution to your problem. There is no obligation attached to this service.

Fordson Tractor—$495—f. o. b. Detroit

Ford

CARS TRUCKS TRACTORS

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This is the Clothes Closet →







This is the Book we want to send you

This is the Fixture~

The picture above shows the type of beautiful clothes closets you can work out very easily with Knape & Vogt Clothes Closet fixtures.

The new folder shows you exactly how to make splendid installations in every size and kind of closet.

The fixtures cost very little. They provide double closet capacity at a saving of half the usual space. They furnish true modern convenience, perfect clothes protection, and add a neat, attractive touch to the entire house.

Send for the folder. It's yours for the asking.

KNAPE & VOGT MFG. CO.
GRAND RAPIDS, MICHIGAN

Knape & Vogt fixtures are sold in hardware stores everywhere. If you are unable to find your local dealer, order from the factory direct.

PRICES

14 inch.....	$4.00	22 inch.....	$5.20
16 inch.....	4.30	24 inch.....	5.50
18 inch.....	4.60	26 inch.....	5.80
20 inch.....	4.90	28 inch.....	6.10

Knape & Vogt Mfg. Co.,
Grand Rapids, Mich.

Send me your Free folder "Beautiful Clothes Closets" and your Free blue print folder of Closet Plans.

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Address .....

City .....

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The contractor who uses Lehigh—

advertised by these two pages in color

This advertisement will be read this month by people in your neighborhood. It says:

"A good contractor will save you money through skilful building economies. He will put quality both where it can be seen at the start and also where it will be noticed for its low repair expenses in the years to come.

"A point to remember in choosing a contractor:

"The contractor who insists on dependable materials is likely to hire competent help and to put skill and dependability into all that he does."

Tie up with this message. It will let the people of your community know that they can count on you for permanent satisfaction whatever they build. And don't forget: Lehigh advertising reaches about seven and one-half million people through the Saturday Evening Post, Literary Digest, House and Garden, Successful Farming, Farm Journal and other leading publications.

The Lehigh plan includes a number of measures you can adopt locally to put this idea to work for you. Write us for details, or ask to have a salesman call.

LEHIGH PORTLAND CEMENT COMPANY

ALLENTOWN, PA.
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19 MILLS FROM COAST TO COAST

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FAIRBANKS-MORSE HOME WATER PLANTS

You Can Be Assured of *Economical, Dependable Water Service* beyond the city mains





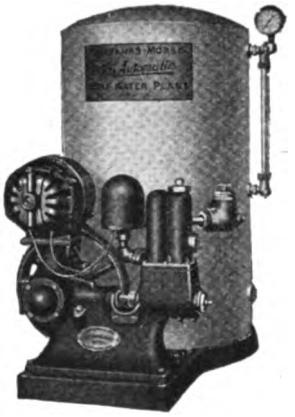


Home owners in increasingly large numbers are learning that water under pressure is one of the greatest modern aids to health and happiness in the home. Home owners who build or remodel beyond the water mains are always interested in knowing that they, too, can have running water in bathroom, kitchen, laundry, garage, barn, watering trough—*any place—at a cost of merely a few cents a day.*

When you are going over the specifications with your customers who will live beyond the water mains, this matter of water under pressure will be a welcome suggestion. With water always handy at the turn of a faucet—as compared with the drudgery of "pump, pail and carry" methods—the owner of the new home or remodeled home will be far better pleased with the modern living conditions.



No matter where the home is located there is a Fairbanks-Morse Home Water Plant to fit the requirements, in capacities from 120 gallons per hour to 5,000 gallons. There are electric and engine-driven plants for drawing water from any source—lake, spring, stream, shallow well, deep well, cistern. The electric plants are automatic in operation—self-starting, self-priming, self-oiling.



200-gal. per hour plant
"It's Automatic"

We shall be glad to send you, without obligation, our 32-page Home Water Service Book which is of particular interest to architects, builders and home owners.



120-gal. per hour plant
"It's Automatic"

FAIRBANKS, MORSE & CO.

Manufacturers *Chicago, U. S. A.*

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Branches and Service Stations covering every State in the Union

PRICES

120 gallons per hour capacity pump, 60 cycle motor, 8-gallon galvanized tank, complete, $84.75 list.

200 gallons per hour capacity pump, 60 cycle motor, 35-gallon galvanized tank, complete, $123.00 list.

Above prices are cash f.o.b. factory. Also larger sizes, for engine or electric drive, correspondingly low priced.

PIN THIS TO YOUR LETTERHEAD

FAIRBANKS, MORSE & CO., Dept. N-9,
900 South Wabash Avenue, Chicago, U. S. A.

Send latest literature and complete information concerning Fairbanks-Morse Home Water Plants.

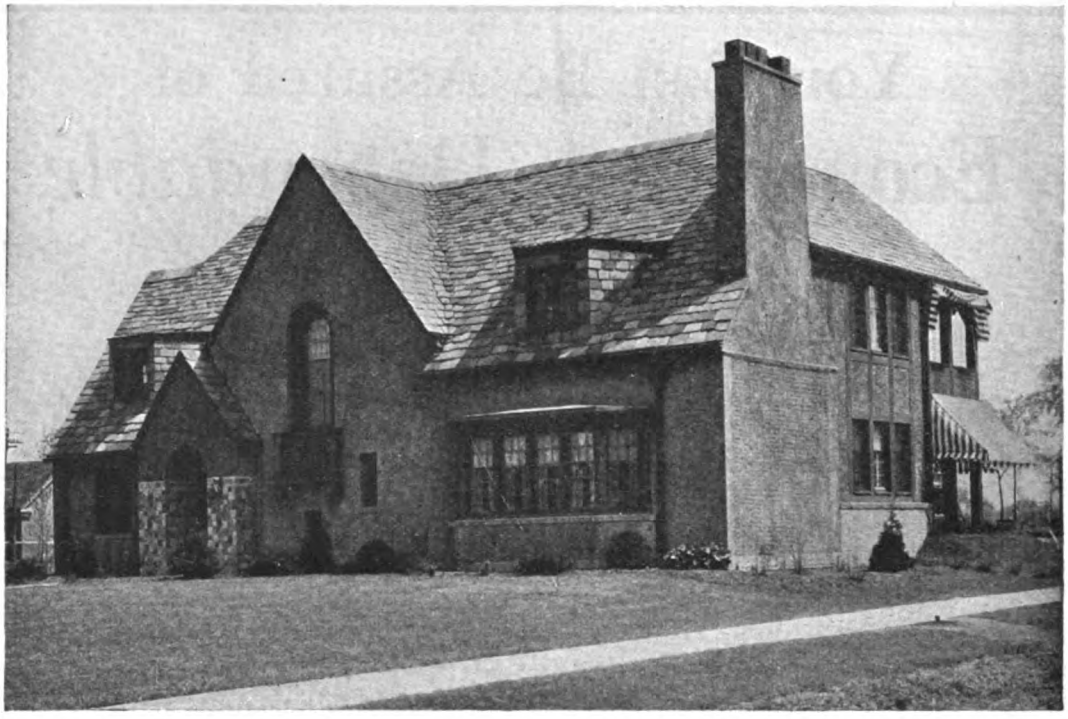
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THE wonderful texture of Slate—its dignified appearance—the ease with which it adapts itself to any style of building are important factors which add value to your building at a glance. A good roof indicates that good materials are used throughout the structure.

Why take a chance on imitations and substitutes when the original is obtainable at only a slight additional cost? If you have to cut down, do not sacrifice your roof because here the most wear occurs.

Play safe—investigate first.



· Largest Shippers of Roofing Slate in the World ·

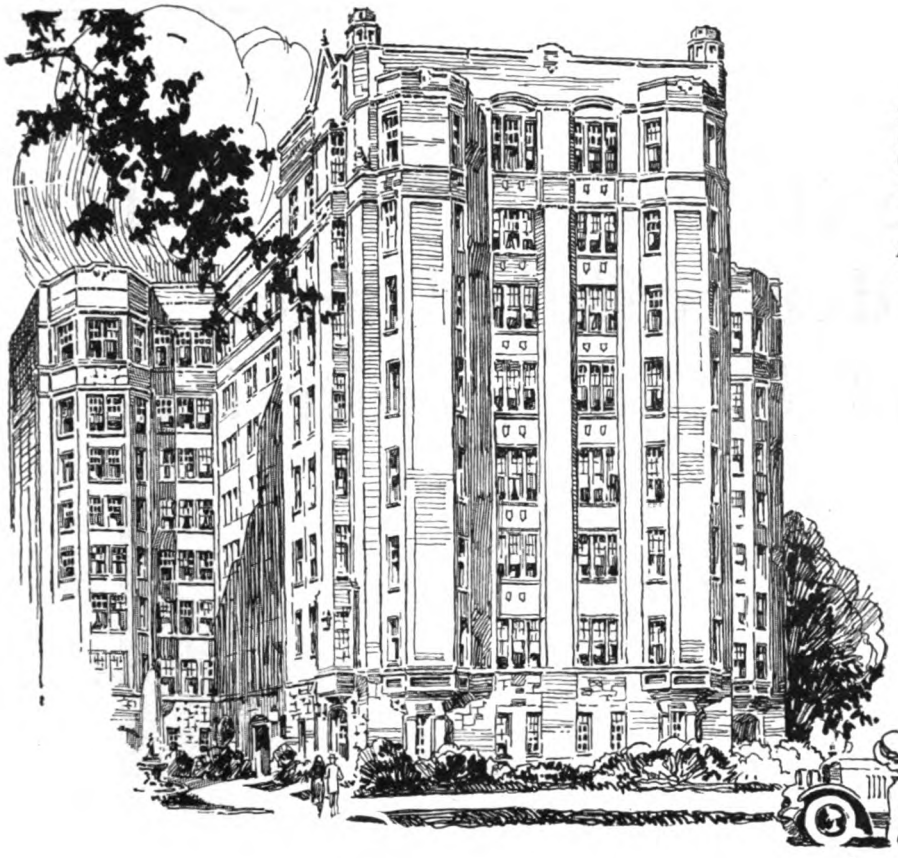
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HAMMANN BUILDING



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The Devonshire, 6334 Sheridan Road, Chicago. Architects, McNally, Quinn & Company, Chicago. Owner, Devonshire Building Corporation, Chicago. Each of Twenty-eight Kitchens equipped with Reliable Gas Range with Lorain Oven Heat Regulator.

Twenty-eight RED WHEELS

TWENTY-EIGHT beautiful apartment-kitchens furnished with Gas Ranges equipped with Lorain Oven Heat Regulators. Twenty-eight more dwelling places for satisfied tenants—their satisfaction due, in large measure, to the business judgment of those responsible for the specification of kitchen-equipment.

Nothing could add to the convenience and efficiency of the kitchen—nothing could increase the health and happiness of the household—nothing keep cooks contented, in the years to come, as the famous Lorain RED WHEEL.

The Lorain is a thermostat that measures and automatically maintains the heat of the oven at any desired temperature. It is built into the stove. It saves time, food, labor and fuel. It simplifies every oven-cooking problem for the beginner or experienced cook.

The Lorain Oven Heat Regulator is the original oven heat regulator—the *only* oven heat regulator manufactured and *guaranteed* by the same company that makes the stoves of which it is a part.

These famous makes of Gas Ranges are equipped with the Lorain: Clark Jewel, Dangler, Direct Action, New Process, Quick Meal and Reliable. You can always tell a genuine Lorain Oven Heat Regulator by the little RED WHEEL.

Lorain-equipped Gas Ranges are made in every approved size, style and finish suitable for houses, schools, churches, apartments—any building where cooking is to be done. For specific data, see 19th edition, Sweet's Catalog, pages 2497-2506 inclusive. Additional information sent on request.



Type of Lorain-equipped Reliable Gas Range installed in kitchens of The Devonshire, Chicago.



One easy turn of the Lorain Red Wheel gives the housewife a choice of any measured and controlled oven heat for any kind of oven cooking or baking

Unless the Regulator has a RED WHEEL it is NOT a LORAIN

AMERICAN STOVE CO., 222 Chouteau Ave., St. Louis, Mo.

Largest Makers of Gas Ranges in the World

LORAIN OVEN HEAT REGULATOR

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Nowhere else in all the world are builders offered such a variety of *building materials*

AMERICAN builders should be able to construct more attractive homes, more conveniently and comfortably appointed, than the builders of any other country. And we believe they do. But it must also be said that this very flood of materials necessitates keener perception and finer discrimination when you choose. This is as true in the selection of hardware as in any other item.

More and more builders are using Sargent Locks and Hardware of solid brass or bronze. Years of faultless service in buildings of every description and an adaptability to every present-day need justify this choice. They know that the Sargent kind costs them a little more. But once on it's on to stay. No after-fussing, fixing or excuses. Just the complete measure of beauty, service and security that only the finest of hardware can give.



Sargent Hardware for buildings of every style and price

SARGENT & COMPANY, *Hardware Manufacturers,* 52 Water St., New Haven, Conn.

SARGENT
Locks & Hardware

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Uncle Sam *knows!*



THE selection of Pennsylvania Portland Cement for the new Department of Interior Building at Washington is more than an evidence that Pennsylvania Cement fully complies with the Government standards. It is an expression of confidence by the architects and engineers who designed and executed this massive building to be a model of efficiency and permanence.

The use of Pennsylvania Portland Cement is a guarantee of reliability. Not only does it exceed U. S. Government standards but in the entire process of manufacture, from the selection of the finest cement rock to the final product, every step must insure quality. You may be sure that no better cement can be made by any process or by any method.

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Thirty days or more before any Pennsylvania Portland Cement is ground for shipment, we thoroughly test the fused clinker from which cement is made. A miniature grinding mill installed in our laboratories duplicates actual process of manufacture. This makes it possible to know that the quality of Pennsylvania Portland Cement is certain *every time*. Every barrel exceeds the rigid U. S. Government standard requirements.

This reputation for quality has been the determining factor for the selection of Pennsylvania Portland Cement by architects and engineers in such important work as the New York and Brooklyn subways. The Hill to Hill bridge at Bethlehem, Pa., the Polo Grounds, the Bear Mountain Bridge, The American News Co. Building and the Approaches to the Vehicular Tunnels.

Mail the coupon for your free set of the three volume library "More Profits in Cement." They contain valuable information for all cement users.

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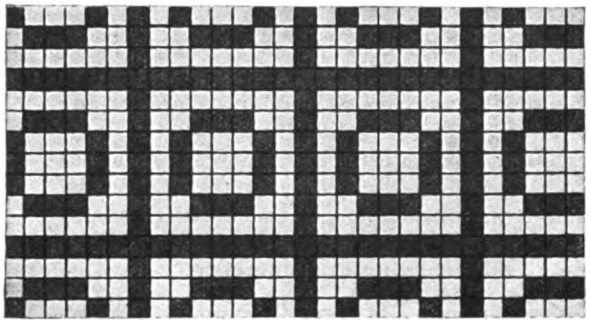
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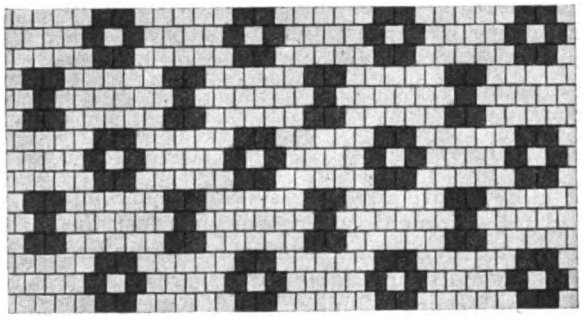
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NORTON FLOORS

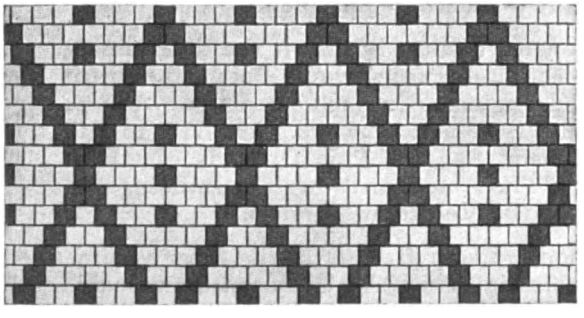
Alundum Tiles, Treads and Aggregates



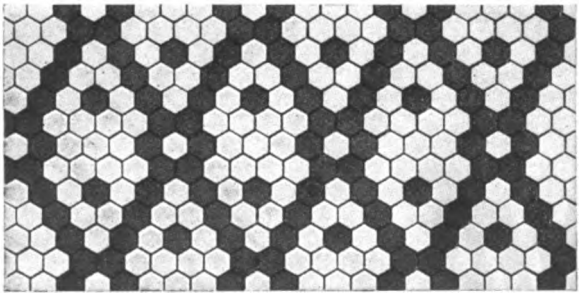
No. 1107—44% Alundum Ceramic Mosaic



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Ceramic Mosaic floors are made permanently slip-proof (wet or dry) through the use of Alundum Ceramic Mosaic Tile set in design with vitreous tile.

The range of colors gives ample opportunity for various color plans as required. Reproductions shown here indicate that the range in designs is practically limitless.

Alundum Ceramic Mosaic Tile is furnished loose, by the barrel, or mounted in any design favored.

Colors: Brown, white granite, buff, gray, salmon and green.

Sizes: ¾" and 1 1-16" square. 1" hexagonal. 2 1-4" x 1 1-16" nosing.

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Colonial Hall, Kew Gardens, New York now nearing completion equipped exclusively with Murphy In-A-Dor Beds.



This building, designed and owned by Wohl Bros., has 78 two-room apartments with dressing closet and dinette.

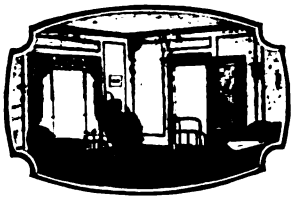


Door closed with perfect concealment. No indication of an enclosed bed.

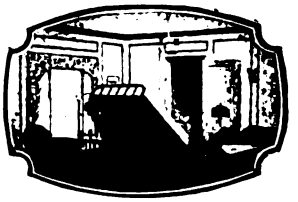


Bed ready to lower—note how easy bed springs may be cleaned.

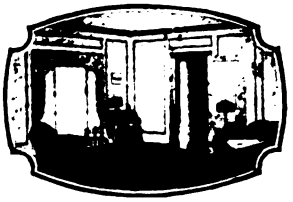
Why experienced Architects, Builders and Contractors Specify Murphy In-A-Dor Design and Construction



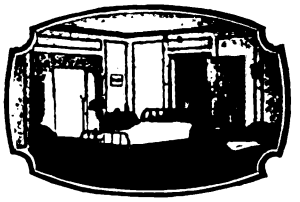
Door open—showing position of bed when not in use.



Bed half way down, note perfect balance of bed in any position.



Bed half way out—a full sized bed through the ordinary door.



Bed on floor at desired angle No need of moving furniture, just swing bed.

MURPHY In-A-Dor installation doubles the living accommodations of an Apartment or Home. Tenants need and occupy a less number of rooms. Saving in cost of furniture and rental increases the revenue of the owner's investment—a mutual benefit to both owner and tenant, therefore, use of the Murphy is purely an economic proposition.

Let Our Service Department Help You—No Obligation

An experienced technical department is maintained for the benefit of architects, builders, and apartment owners at each Murphy office. Let us work with you.



Murphy all steel bathroom cabinets are permanently beautiful and guaranteed for the life of the building. Unusually attractive in design and construction. Specify them for greater economy and tenant satisfaction

The MURPHY IN-A-DOR BED

THE MURPHY DOOR BED COMPANY

Offices in All Principal Cities

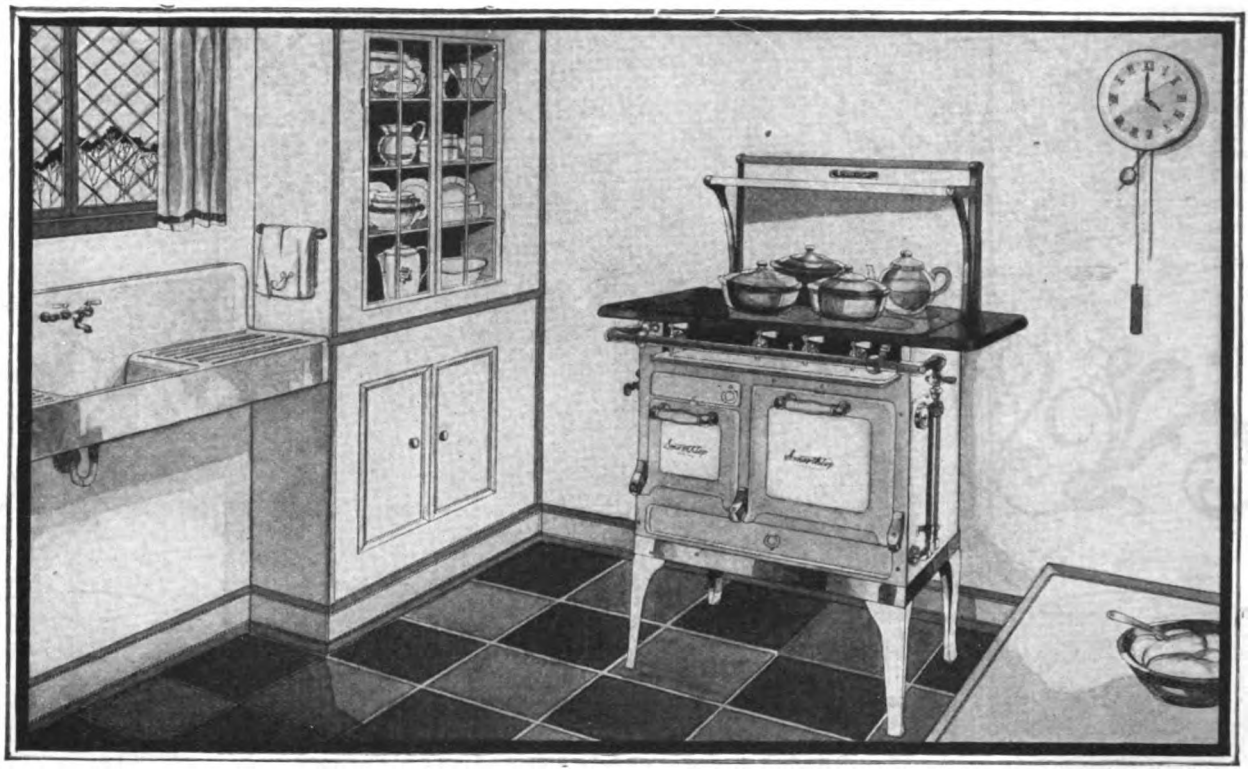
Chicago, Ill. ..... 22 W. Monroe St.	New York City ..... 19 W. 44th St.
St. Louis, Mo. ..... 315 N. Tenth St.	Atlanta, Ga. ..... 204 Arcade Bldg.
Detroit, Mich. ..... 7th Floor Kresge Bldg.	Seattle, Wash. ..... Terminal Sales Bldg.
Birmingham, Ala. ..... 513 N. 21st St.	San Francisco, Calif. ..... Crocker Bldg.
Cleveland, O. ..... 1140-42 Hanna Bldg.	Los Angeles, Calif. ..... 1807 S. Main St.
Kansas City, Mo. ..... 1114 Grand Ave.	Denver, Colo. ..... 1534 Blake St.
Dallas, Texas. ..... 1919 Pacific Ave.	Ottawa, Can. ..... 205 O'Connor St.
El Paso, Texas ..... Neff-Stiles Bldg.	Montreal, Can. ..... 153 Peel St.
Houston, Texas. ..... 2301 Main St.	St. Petersburg, Fla. ..... 225 Second Ave., S
New Orleans, La. ..... 319 Dryades St.	Miami, Fla. ..... 234 Columbia Bldg.



The new Murphy In-A-Wal Ironing Board in an all steel cabinet provides another household necessity which will enhance the desirability of any home, apartment or apartment hotel. Send for special descriptive matter.

There is Only One In-A-Dor Bed "THE MURPHY"

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Good-looking Kitchens
and more efficient!

SMOOTHTOP makes the old cabinet style of gas range obsolete—particularly in the kitchens of apartments and small homes. Where space is limited, the compactness of a Smoothtop Gas Range permits its easy location in any position. Where daylight is limited, the smooth table-top construction, with broiler and oven underneath, permits a free flow of light across the cooking surface, with no side-chamber obstructions. Smoothtop is made to the architect's specifications. It helps to rent the apartment and sell the home. Women appreciate its smart, good-looking lines and obvious qualities.

Perhaps the most important quality of the Smoothtop Gas Range is its over-all covered top on which an entire dinner may be cooked at once—over one flame. Around each flame are three cooking zones—one for direct boiling heat, another for gentle boiling, and still another for simmering. As the different dishes are prepared they can be manouvered so that they arrive to the serving point at the same time. Each flame is produced by the new Vulcan patented burner which gives 25% more heat without additional gas cost. (Continuous demonstration in our show rooms.) In addition to top heat control there is oven heat control in Smoothtop. It eliminates constant watching—regulates oven heat in the most advanced scientific manner. A Smoothtop means less time in the kitchen and better cooking in the dining room. May we demonstrate to you its indisputable advantages?

Write for copy of booklet—"*Saving Space in Kitchen Planning*"

STANDARD GAS EQUIPMENT CORPORATION, *Vulcan Division*: 18 E. 41st Street, New York, N. Y.

Smoothtop Gas Ranges

REG. U.S. PAT. OFF.

There is but ONE "Smoothtop" patented—and that is a Vulcan Product, U. S. Patent, June 8, 1920; June 17, 1922; April 4, 1922; other patents pending. Look for name and trade mark.

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Nelson
MASTER • THATCH • ROOF

THE new Nelson Master Thatch Roof is designed according to specifications of some of America's leading Architects.

Since its completion it has the approval of a great many leading members of the Architectural profession as to color, design, quality, coverage and general artistic beauty.

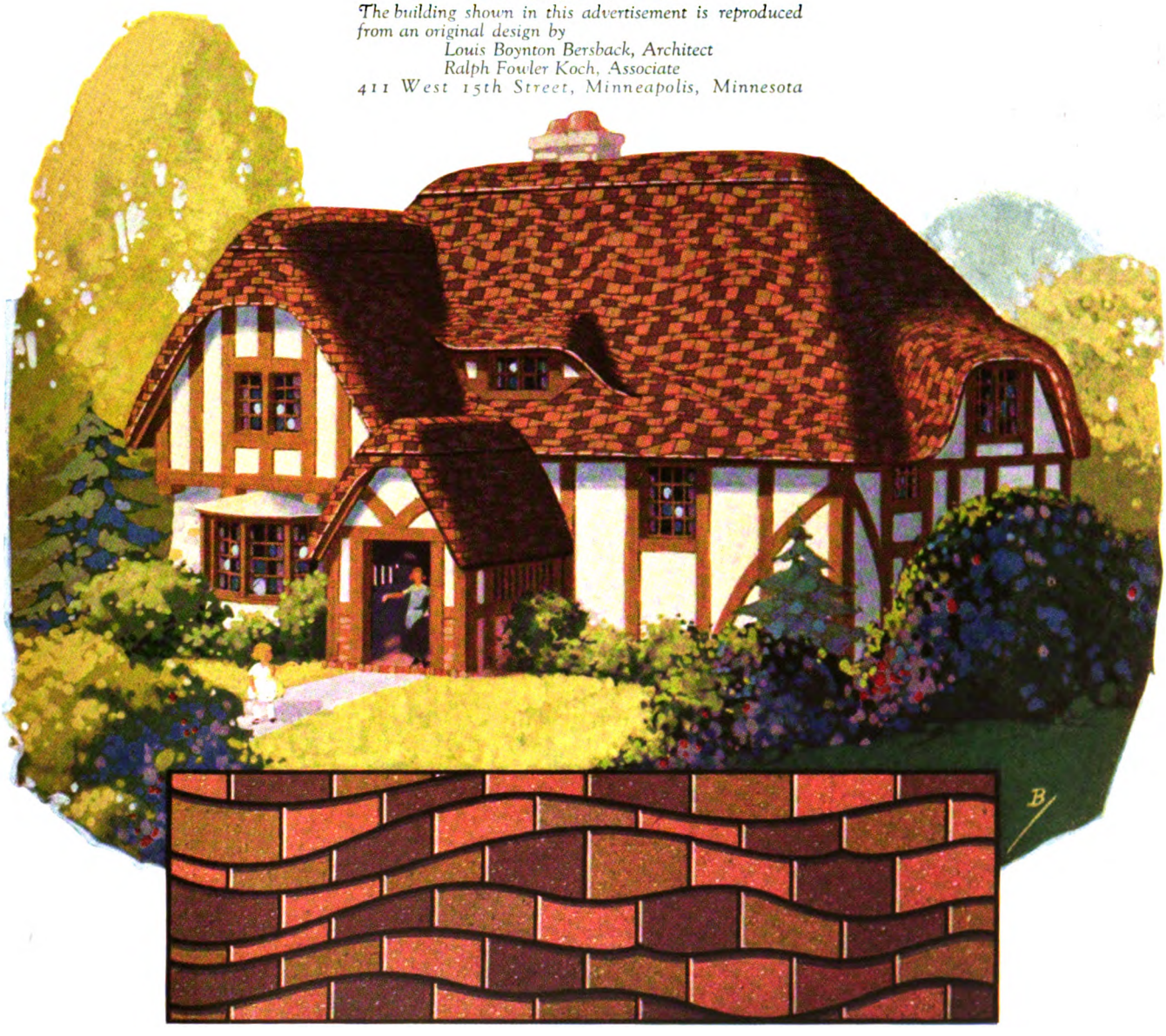
Beautiful, permanent, subdued tones of Nelson natural rock colors are used in finishing Master Thatch—pleasing to the eye and lending distinction to any building when properly selected. Hard and fast lines are completely eliminated. Thus a beautiful artistic effect is achieved together with a covering that is fire-resistant and is fabricated to outlast the building.

Master Thatch should not be confused with so-called "strip thatch" as it is made up of individual, reversible shingles with artistically curved edges, making it easy to lay. It supplies 5 ply coverage.

Nelson Master Thatch is the very roof the Architectural profession has so long desired but which until now has not been available.

The B. F. Nelson Manufacturing Co.
Minneapolis, Minn.

The building shown in this advertisement is reproduced from an original design by
Louis Boynton Bersback, Architect
Ralph Fowler Koch, Associate
411 West 15th Street, Minneapolis, Minnesota



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The Endless Stream

DOWN the long sluiceways on the mountain side rush the giant Shevlin Pines of the western timber country. The constantly running stream of logs seems never ending. ¶ Each log hurries along as if it heard the call of the builders and was itself anxious to supply the ever increasing demand for pine of Shevlin quality. ¶ Whenever you need lumber which must endure, be sure to specify Shevlin Pine.

Shevlin, Carpenter & Clarke Company

900 First National-Soo Line Bldg., Minneapolis, Minn.

SHEVLIN

LOG MARK REGISTERED

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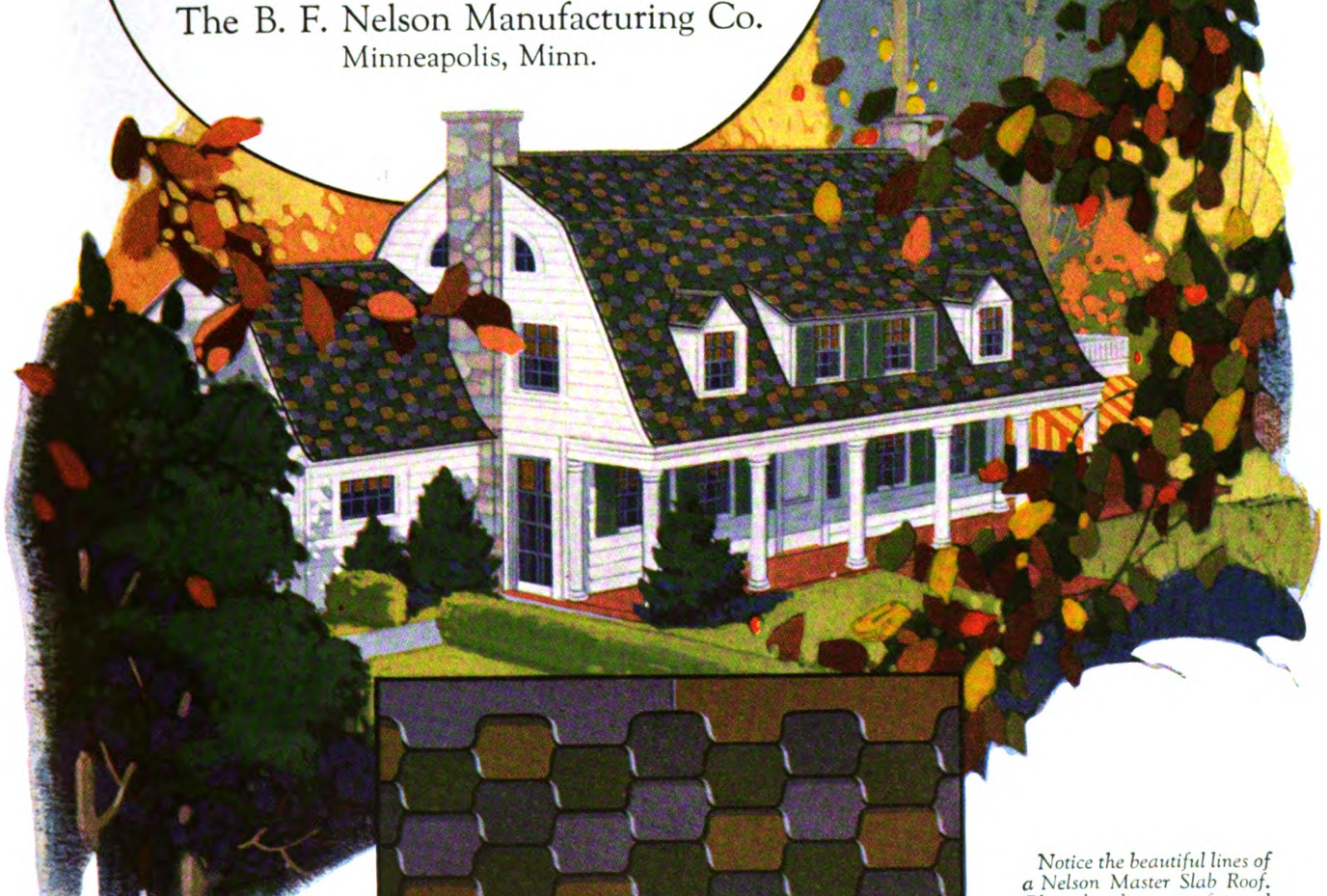
Nelson
MASTER·SLAB·ROOFS

BEAUTIFUL as an old tapestry, durable as the quarried rock from which it is made, a Nelson Master Slab Roof embodies both artistry and scientific construction.

Pride of ownership lies in its skillfully blended colors, the economy of lasting protection in its sturdy fabrication.

We shall be very glad to receive your inquiry for color samples and descriptive literature.

The B. F. Nelson Manufacturing Co.
Minneapolis, Minn.



Notice the beautiful lines of a Nelson Master Slab Roof. The colors become softer and more harmonious with the changing seasons. Write for free samples of the six basic colors, moss green, autumn brown, Spanish red, velvet black, purple or maroon.

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Builders prefer Andersen Frames

We're thankful that our product brings bouquets instead of brickbats.

Mr. Frank Konfirst, Contractor, 2011 South Alport Street, Chicago, writes that he finds Andersen Frames satisfactory in every way and because of the genuine White Pine used in exposed parts they outlast any other frame.

We'll gladly show you in a booklet why builders feel that way about the Andersen Frame.

Andersen Lumber Company
Bayport, Minn.

Andersen FRAMES

Through an aim to make Andersen Frames of greatest benefit to architects, builders, dealers and home owners, the Andersen Factory has become the largest in the world.

Write for latest information on Andersen Standard Frames, stating whether you are an architect, builder, dealer or prospective home owner.

WHITE PINE Andersen FRAMES

Look for this trade-mark—it appears on every Andersen Frame.

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. . yet we have improved it

For all practical purposes, Sheetrock could have gone on forever just as it was. Yet we have improved it.

MADE IT EASIER TO HANDLE. Reduced its weight. Thereby lowered the low cost of making walls and ceilings with Sheetrock.

GIVEN IT EXTRA STRENGTH. Now Sheetrock provides a much more rigid wall, solid, tight-jointed, bracing to frame construction.

MADE IT MORE INSULATING. A new manufacturing process builds up a gypsum core of minute air cells, the strongest structural resistance to heat and cold, insuring more comfort in summer, more economical heat in winter.

AND A SPECIAL SURFACE SIZING gives this improved Sheetrock greater adaptability to any decoration: wallpaper, paint, panels, *Textone*, the U S G finish for toned and textured walls.

FIREPROOF, RIGID, NON-WARPING, this improved Sheetrock assures your customers the full advantages of *security, economy, permanence.*

We are not announcing a new wallboard. We are announcing improved *Sheetrock, the* fireproof *wallboard for new construction, alterations and repairs. Your dealer in lumber or building supplies has it in stock for you, or can get it promptly from our nearest mill. Write for a sample of* improved *Sheetrock.*

UNITED STATES GYPSUM COMPANY
General Offices: Dept. 8, 205 W. Monroe Street, Chicago, Ill.



Sheetrock is inspected and approved as an effective barrier to fire by the Underwriters' Laboratories, Inc.

Reg. U. S. Pat. Off.

SHEETROCK

The *FIREPROOF* WALLBOARD

. . . . . *Clip and mail this coupon today!* . . . . . .

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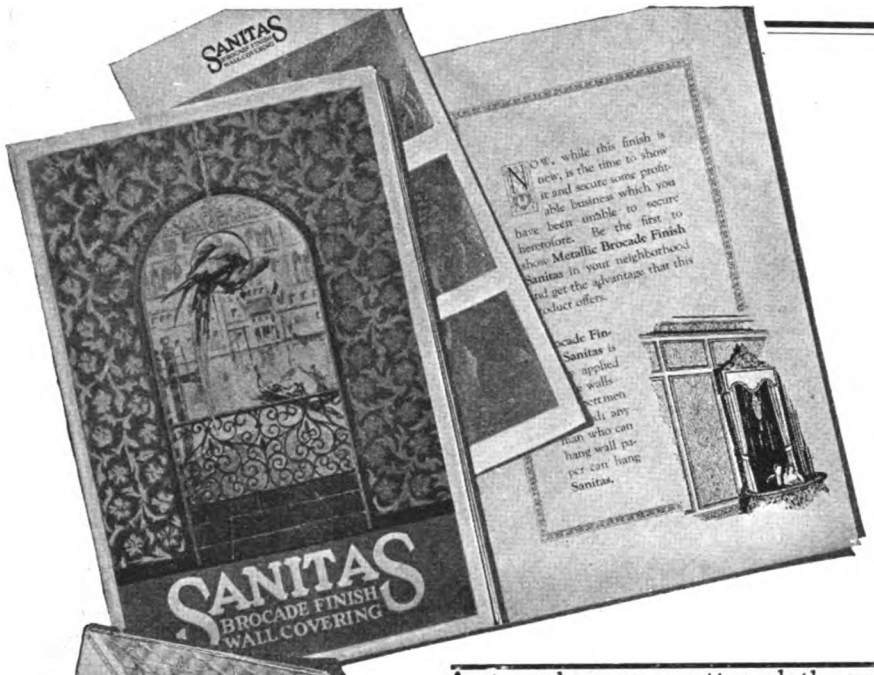
Please send me the sample of improved Sheetrock and copy of your Time Book for builders.

Name.....

Address.....

Sheetrock comes in standard sizes: ⅜ inch thick, 32 or 48 inches wide and 6 to 10 feet long

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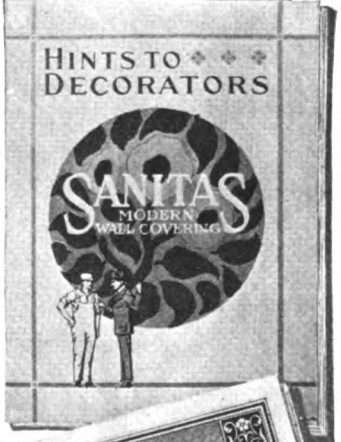
SANITAS
MODERN
WALL COVERING

How else can you obtain wall beauty that is also wall strength?



A strongly woven cotton cloth surfaced with several coats of durable oil colors, in either Enamel Finish, plain or patterned, Flat Finish, plain or patterned, or exquisite Brocade and Metallic Finishes—that is Sanitas Modern Wall Covering.

It can be hung on new walls as soon as the plaster is dry, on old walls when the cracks have been properly painted up, or any of the modern plaster-boards. It neither cracks, tears, peels, blisters or fades, and the phenomenal strength of the cloth back is a protection to the plaster, preventing many cracks and greatly restraining the progress of others. That Sanitas comes in styles for every room in the house, all of which can be cleaned merely by wiping occasionally with a damp cloth, are additional points a tenant appreciates. But it is the protective strength of Sanitas that makes it an investment, not an expense, and increases the ease of selling or renting the property.



Styles for every room in the house

Plain and Pastel Flat Finish
tints that can be hung as they come, or stenciled, frescoed or Tiffany blended.

Decorative Flat Finish
conventional and foliage patterns, stripes, mottles, and tapestry grass-cloth, leather and fabric effects.

Brocade and Metallic Finishes
in embossed effects for paneled treatments and trimmings.

Enamel Finish
plain colors, tile effects and decorative patterns, for kitchens, bathrooms, etc.

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Dept. B.A.



Upon request our Architects' Service Bureau can furnish valuable information and data drawn from a wide experience. Also ask for any of the literature shown on this page. It will tell you just what you want to know, quickly.

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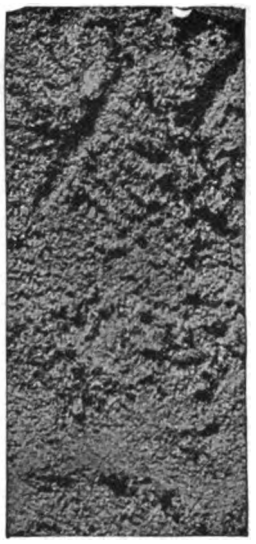
ENGLISH COTTAGE



ITALIAN



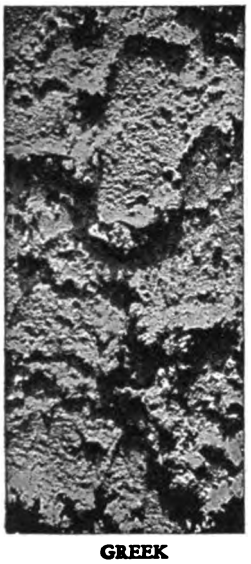
COLONIAL



GOTHIC



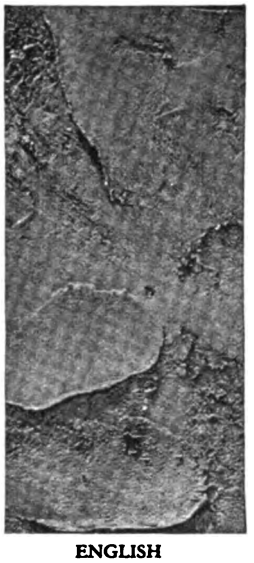
ITALIAN COTTAGE



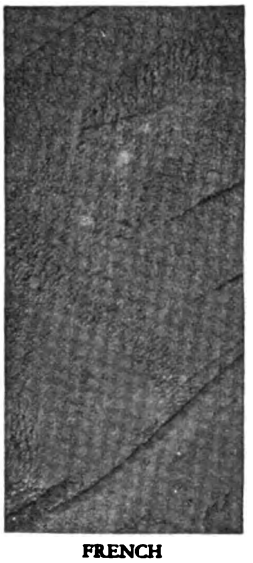
GREEK



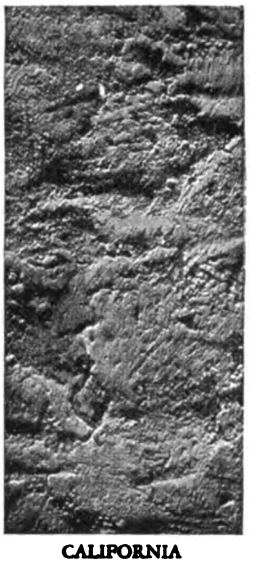
MODERN AMERICAN



ENGLISH



FRENCH



CALIFORNIA

The Portland Cement Stucco textures here shown are taken from photographs of actual stucco jobs. Any competent workman in the plastering trade can reproduce these beautiful, permanent and economical finishes.

A Texture for Each Period

Controlled and directed by the creative genius of the architect, Portland Cement Stucco assures a range of beauty obtainable with no other material. It makes certain a texture and tint that complete harmoniously the style of the period in which the structure is designed. Have you received your copies of "Portland Cement Stucco Textures" and "Portland Cement Stucco"? If not, send for them today. Address the nearest office listed below.

PORTLAND CEMENT ASSOCIATION

A National Organization to Improve and Extend the Uses of Concrete

		COLUMBUS	DETROIT	LOS ANGELES	NEW ORLEANS	PHILADELPHIA		
	BOSTON	DALLAS	INDIANAPOLIS	MILWAUKEE	NEW YORK	PITTSBURGH	SAN FRANCISCO	
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NAILS

Wheeling
CORRUGATING COMPANY

WIRE NAILS
CUT NAILS

— Carpenters and builders are friends of Wheeling nails. They appreciate nails that are well made,—with heads centered on shanks, uniform in size and finish. Wheeling nails are as nearly perfect as all nails should be.

Wheeling can meet all your standards of special nail requirements. Ask Wheeling or write the nearest branch for information concerning wire nails, barbed wire nails, cut nails, finishing nails, galvanized or cement-coated nails—nails of every kind for every purpose, from spikes 8 inches in size to the small roofing nails made on tack machines.

HARDENED · STEEL CUT

FLOORING NAILS

These are individually hardened nails that *drive without bending*. The steel is specially treated to obtain hardness without brittleness. The man who wields the hammer knows that it is no easy task to pull nails from hard flooring—yet every nail that bends must be extracted. That's why Wheeling nails are economical: no valuable time is lost and no nails are wasted because *these nails do not bend.*

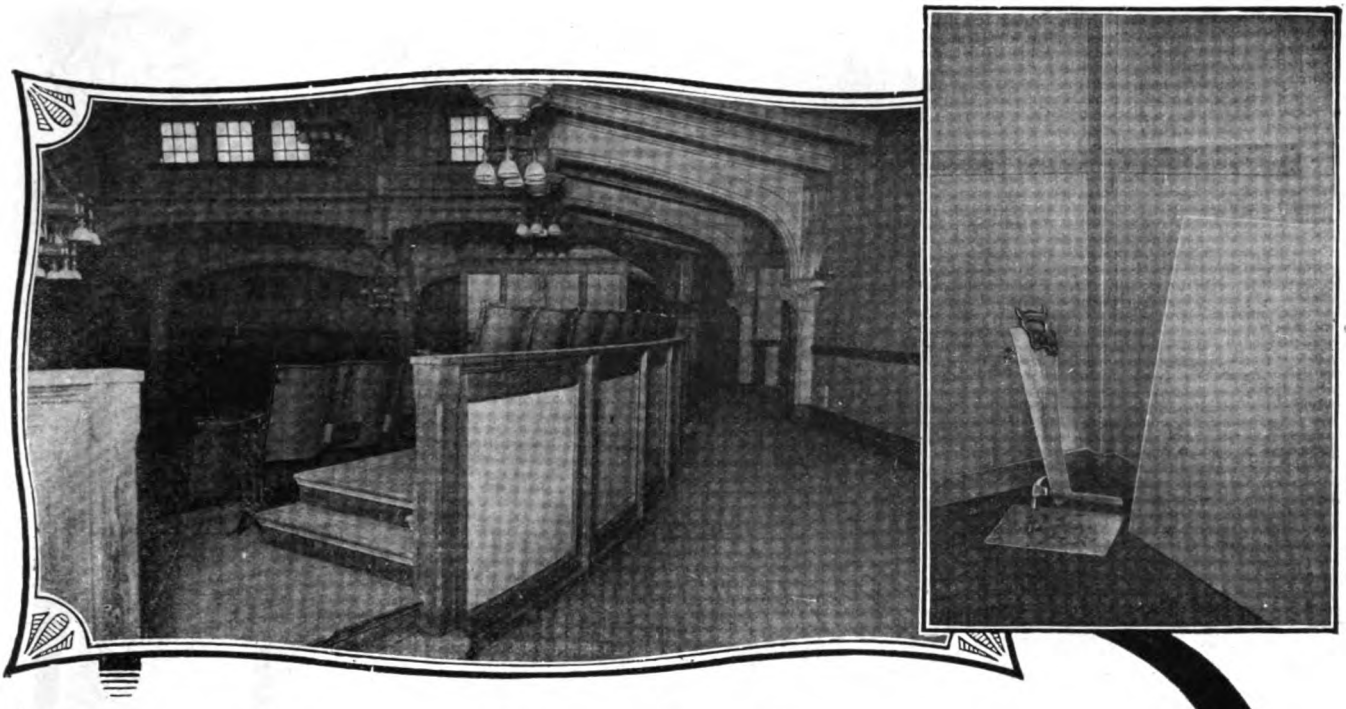


WHEELING CORRUGATING COMPANY
Wheeling, W. Va.

Wheeling

New York Chicago Kansas City Richmond Chattanooga Minneapolis Philadelphia St. Louis

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There will never be a fire horror here

because the builder and architect provided this auditorium with partitions of Ambler Asbestos Building Lumber and Linabestos Wallboard—permanent materials that offer adequate protection against fire. Long-fiber asbestos and Portland cement have, in their original form, stood intense heat. They are combined to make these sturdy fireproof materials. The finished products are as permanent as the primary constituents. Nothing to decay, they grow stronger with age.

Ambler Asbestos Building Lumber

is used for weatherproof and fireproof construction — exterior half-timbering, fire-doors, lining for elevator shafts and for a variety of other uses. The laws of Massachusetts, Connecticut, New York and Pennsylvania require that such material be used for all moving picture booths. We are pleased to furnish, free of any obligation, blue prints and specifications for these booths. This material comes in a restful gray color that may be used without any special finish, but it may be painted any color desired. Furnished in sheets 42 inches wide and 48 to 96 inches long and thicknesses varying from $\frac{3}{16}$" to 1".

Ambler Linabestos Wallboard

is for interior construction and furnishes an ideal substitute for plaster. Buff in color, it comes in sheets 48" by 48" and 48" by 96", $\frac{3}{16}$" and ¼" thick to fit standard joists and studding.

Both materials may be cut with ordinary tools and can be handled by carpenters. Let us send you samples and show their application to some job now in hand.

Asbestos Shingle, Slate & Sheathing Company
Department C **AMBLER, PENNA.**

Branch Offices:—Baltimore, Boston, Buffalo, Chicago, Cincinnati, Columbus, Detroit, Cleveland, Minneapolis, New York, Omaha, Philadelphia, Pittsburgh, Washington, Wilkes-Barre; Toronto, Canada; Havana, Cuba.

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Asbestos Shingle, Slate & Sheathing Co.
Dept. C,
AMBLER, PENNA.

Please send me information and literature on Ambler Asbestos Building Lumber and Ambler Linabestos Wallboard as applied to the construction of

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Name.....

Position.....

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When Bridgeport copper came in barrels

WHALING, so important a Connecticut industry in the early part of the century, had long since given place to brass manufacture as the State's leading industry, when hoop skirts were in vogue.

¶ Here is shown a scene on the wharf at Bridgeport in the summer of '66—the year following the incorporation of the Bridgeport Brass Company. At that time the company received its raw material "by the barrel." Hoop skirts, worn by the ladies of those days, helped to give the Brass Company its start. Made occasionally over a frame of whalebone, brass, however, was favored by the better modistes of the day. Brass spangles for holding the frame work in shape were one of the company's main products until 1870 when the style changed and the company turned its attention to the making of brass pipe and plumbing goods, kerosene lamps and flyfans. To this day, however, brass is supplied to manufacturers of modern day dress fasteners.

¶ A spirit of adaptability and progress has always marked this company's development. In 1917 it perfected the electric furnace method of melting brass, replacing the century old pit-fire method. The resulting uniformity of mixture is one of the contributions to industry "Bridgeport" is celebrating during its 60th anniversary year.

"Bridgeport" BRASS TRADE CO. MARK
Brass Products
WE MAKE
Ledrite Brass Rod
Phono-Electric Contact Wire
Plumrite Brass Pipe
Phono-Hi-Strength Wire
Tubular Plumbing Goods
Condenser Tubes-Sugar Tubes
Brass, Bronze and Copper Sheets
Brass, Bronze and Copper Tubes
Auto Bicycle and Pressure Pumps
Auto Accessories-Stampings
Engravers' Copper-Specialties
Screw Machine Products
Pressed or Drawn Products
Oil and Grease Guns

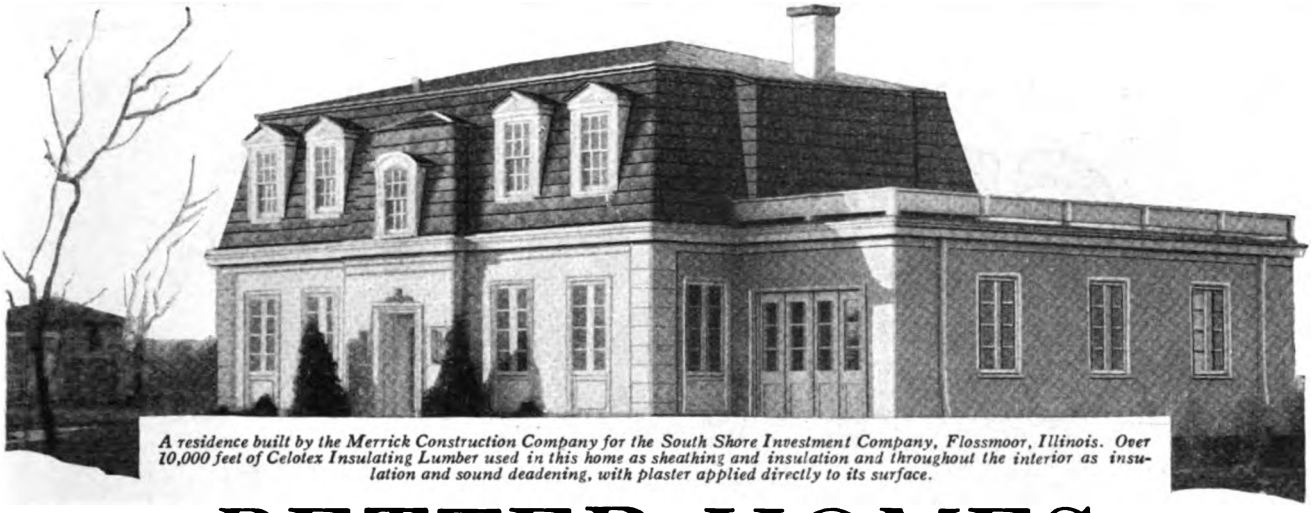
This is our Sixtieth Anniversary

Brass Furnace Electric

Bridgeport Brass Company
BRIDGEPORT - CONNECTICUT
NEW YORK PHILADELPHIA CLEVELAND CHICAGO DETROIT

Bridgeport Plumrite

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A residence built by the Merrick Construction Company for the South Shore Investment Company, Flossmoor, Illinois. Over 10,000 feet of Celotex Insulating Lumber used in this home as sheathing and insulation and throughout the interior as insulation and sound deadening, with plaster applied directly to its surface.

BETTER HOMES
That Cost No More to Build

No house is truly modern without insulation—the power to stop heat. Home owners are no longer satisfied with houses that are chilly and draughty in winter (in spite of big fuel bills) and stuffy with oven-like heat in summer.

They don't have to be! Progressive builders are giving them modern homes built, at no added cost of construction, with Celotex Insulating Lumber.

Celotex stops the one-third heat waste that passes right through the walls and roofs of out-of-date, uninsulated houses. It saves fuel; insures greater comfort, summer and winter; and makes a quieter, stronger house.

Why Celotex houses cost no more to build

You can build these better, modern houses for no more than the cost of ordinary construction. Because Celotex *replaces* and saves the cost of *five* building materials.

Used as sheathing, Celotex replaces wood lumber. It is actually stronger in wall sections than wood lumber itself. It takes the place of lath. Plaster is applied directly to the surface of Celotex, forming a much stronger wall than lath and plaster. It replaces building paper, giving better protection against wind and moisture. It takes the place of deadening felt, giving a restful quiet. *And*, wherever used, Celotex replaces any extra insulating material, giving insulation equal to the best.



Celotex is applied directly to studding in place of wood sheathing. A wall so sheathed is many times stronger than one sheathed with wood lumber.

No extra labor cost

Celotex reduces construction costs, and saves material. It means fewer materials to be applied. Any workman can apply Celotex—easily and quickly. The broad, strong boards are more easily sawed and nailed than wood lumber. On inside walls, Celotex can be applied in about ⅓ less time than lath.

Free specifications

House insulation is the coming thing in the building field—and every progressive contractor and builder will be quick to get the facts. Find out more about Celotex. It will help you get business and establish your reputation for building better houses.

Send the coupon below for complete specifications that show you the many advantages of Celotex Insulating Lumber in building. Do it now!

THE CELOTEX COMPANY, CHICAGO, ILLINOIS *Mills:* **NEW ORLEANS, LOUISIANA**

Branch Sales Offices: (*See telephone books for addresses*)

Boston	Denver	London (Eng.)	Milwaukee	New York	Salt Lake City	St. Louis
Cleveland	Detroit	Los Angeles	Minneapolis	Philadelphia	San Francisco	St. Paul
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CELOTEX

INSULATING LUMBER

"THERE IS A USE FOR CELOTEX IN EVERY BUILDING"

The Celotex Company, Dept. **269**
645 N. Michigan Ave., Chicago, Ill.

Please send specifications and free literature about Celotex.

Name .....

Firm .....

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california PINE

California White Pine (trade name)

California Sugar Pine



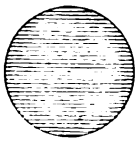
Enameled Effects, Beautiful and Lasting, with Fewer Coats

CALIFORNIA Pines are ideal for all kinds of interior finished woodwork. They dress to velvety smoothness of surface. First coats of paint are easily absorbed, forming a lasting foundation for finishing coats. The light color is easy to "hide," thus effecting an economy in cost of enameling.

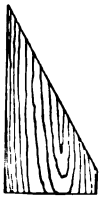
Permanency of finish is assured because of the smooth surface, and the grain does not "raise" to disfigure or crack the enamel. The delicately beautiful grain of California Pines produces a pleasing "natural" finish, while staining is highly successful because "muddy" effects are entirely absent.

You will find that carpenters like to work with these soft pines because of the ease and rapidity of cutting, and the accurate workmanship possible. The economy of California Pine interior woodwork lies in the lessening of labor for installation and the elimination of wasting material in cutting.

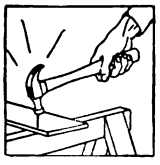
We have just issued for architects and builders a set of California Pine Information Sheets covering all uses of these woods. These data sheets are compiled by a Wood Technologist formerly with the U. S. Government Forest Products Laboratory at Madison, Wisconsin and now connected with this association. He will gladly answer inquiries or supply data for specifications.



Soft, easy-cutting texture and uniform grain of California Pines result in velvety-smooth surfaces under the planer.



Sharpest profiles and most finely graduated uniform curves are obtained. Lines and corners are sharp without splintering.



Soft "corky" texture enables nailing without splitting — even up to the very edge. Nails hold firmly.



Grain of California Pines will not "raise" to disfigure or cause cracking or chipping of paint or enamel surfaces.

California White and Sugar Pine Manufacturers Association

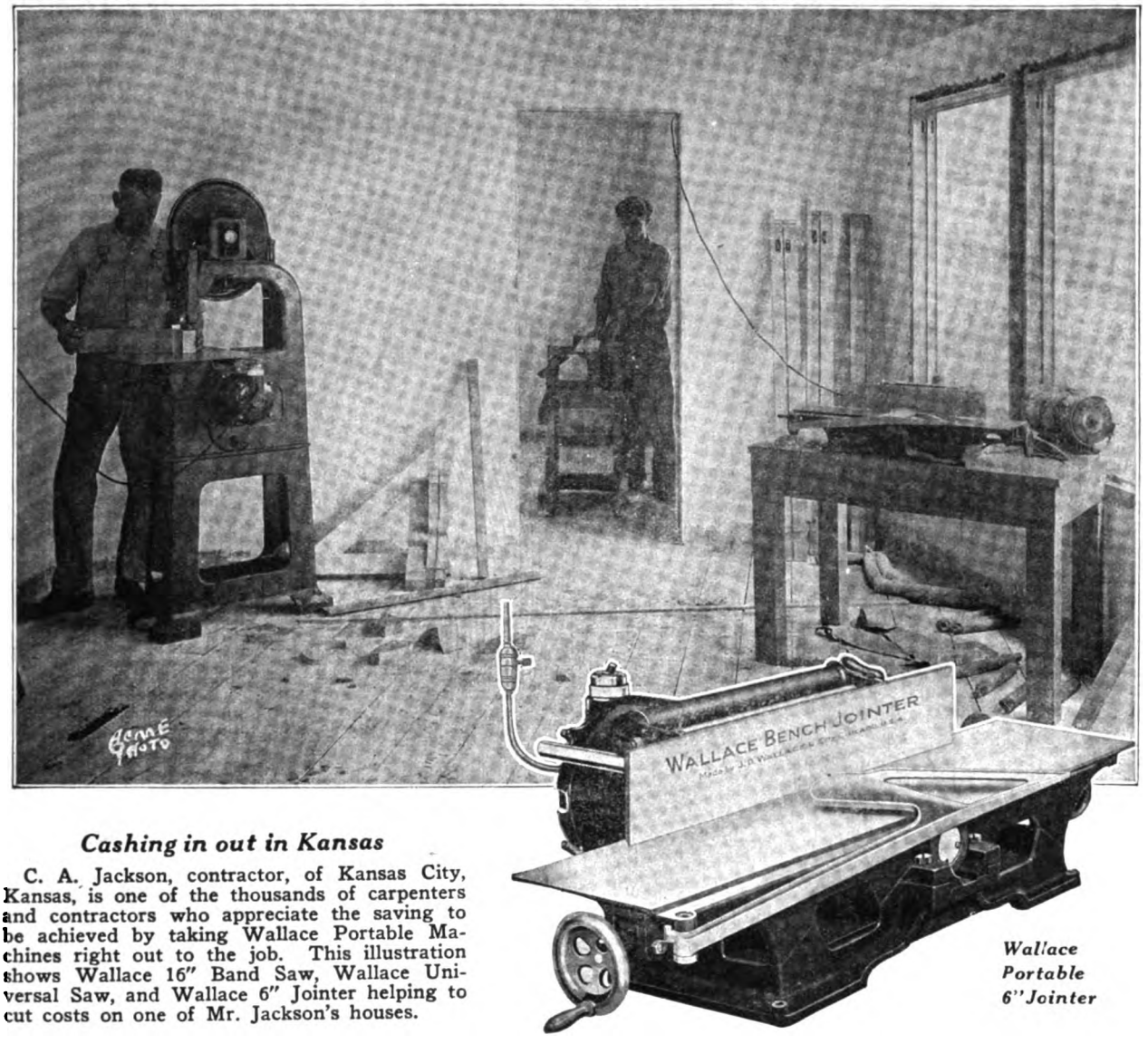
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Wallace Portable 6" Jointer

Cashing in out in Kansas

C. A. Jackson, contractor, of Kansas City, Kansas, is one of the thousands of carpenters and contractors who appreciate the saving to be achieved by taking Wallace Portable Machines right out to the job. This illustration shows Wallace 16" Band Saw, Wallace Universal Saw, and Wallace 6" Jointer helping to cut costs on one of Mr. Jackson's houses.

Wallace PORTABLE MACHINES

Things That Sell Homes

USE Wallace Portable Machines to build into your houses the countless little comfort features that make homes. Such things as trellis fences, pergolas, arbors, and trellises outside, and cupboards, broom closets, clothes-chutes, built-in ironing boards, and breakfast nooks can be built from waste material at little added cost on Wallace Machines, and they add tremendously to the selling value of homes.

Wallace Universal Saw
Wallace 16" Band Saw
Walace Plain Saw
Wallace 6" Jointer
Wallace 4" Planer
Wallace 6" Lathe
Wonder Disc Sander
Wonder Spindle Sander
Wallace Glue Pot, Automatic Heat Control

Accurate and Speedy

All Wallace Machines are precision built for absolute accuracy on large or small work. Their speed is a large factor in cutting down costs and speeding up completion dates, yet they are accurate enough for the finest cabinet work and interior finish. Drawers, cupboards, French windows, etc., can be made on the job.

Convenient and Economical

Wallace Machines can be easily taken out to the job and moved about as need arises. They are all direct-motor-driven, no belts to slip and dissipate power. And a full set of Wallace Machines can be bought for little more than the cost of one large machine of similar high grade construction.

Send for Catalog 402D and price list!

J. D. Wallace & Co.

150 S. California Avenue
CHICAGO, U. S. A.

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The ALPHA Dealer of your Community has a lot of helpful information on Cement improvements



ALPHA CEMENT is produced under the strictest chemical supervision. Every bag of it will give you high-class results.

The ALPHA Dealer can give you a free copy of the new and enlarged edition of the 112-page Handbook on **Cement Construction, "Alpha Cement—How to Use It." He also has special Bulletins and Service Sheets on scores of home, yard, farm, business-place and civic improvements—foundations, driveways, storage buildings, garages, gate posts, engine bases, water troughs, house foundations, dams, etc.**

You will be delighted with the common-sense value of these helps in dealing with property-owners.

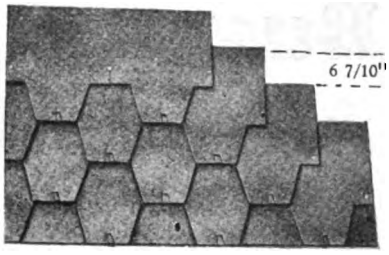
Alpha Portland Cement Company
EASTON, PA. **CHICAGO, ILL.**
New York, Philadelphia Boston Baltimore Pittsburgh
St. Louis Battle Creek, Mich. Ironton, Ohio



See the ALPHA Dealer and get these good Suggestions Free

use ALPHA Cement

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A 6 7/10" Head Lap

Type of Shingle	Cyclone Shingle	10" Strip Shingles (4 in 1)	Individual Shingle
Thickness on Roof	2-3-4	1 Thick 2 " 3 "	2 Thick 3 " 4 "
Head Lap	6 7/10"	2"	4 3/4"
Side Lap	5"	3 3/4"	2 5/8"
Number of Shingles per Square	72	112	424
Number of Nails per Square	216	500	848
Locked-Down	Twice	No	No
Weight per Square	200 Lbs.	200	240

STUDY the little illustration above. Note the exceptionally long head lap of *Cyclone* Shingles—6 7/10 inches to be exact.

The side lap, too, is generous, measuring 5 inches. No wonder *Cyclone* Shingles make a roof that is absolutely weather-tight.

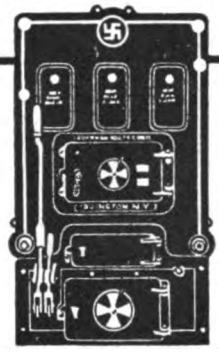
Other superiorities of *Cyclone* Shingles are explained by the chart at the left. They speak for themselves. *Cyclones* are available in Blue-Black, Red, Green and Cyclo - Blend. Underwriters' Labels. A postcard brings further particulars.

CYCLONE SHINGLE

Ford
Roofing
Products Co.
Dept. 309
535 S. Franklin St.
Chicago

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Buggy Days And Boiler Days







Or Your Kind of Boiler Sense

WHEN you and I were boys, we didn't have cars to go scooting around the country, "seeing the girls." It was buggies then. Buggies and horses.

Dad had a good sturdy work horse named Jerry, who was a whale for load hauling. Once when Dolly, our so-called "carriage" horse was lame, I put the nickel-plated buggy harness on old Jerry and tied a red ribbon on his foretop, with the idea of calling on Miss Lona Otis. Dad dropped down to the barn when I was hitching him up and remarked, "Well, lad, Jerry is Jerry, isn't he? You can't make a buggy horse out of a work horse by dolling him up in nickel-plated harness."

To my notion it's the same way with boilers. Putting on nickel-plated trimmings and dolling them all up don't make them heat a bit better. It only makes them cost more.

We make the good old load-pulling-week-in-and-week-out Burnham Boiler. If you want it dolled up, we can do it. But we discourage it. A boiler is for work. Not as a cellar ornament.

Send for "Letters To and Fro" and get the real meat of the boiler question.

Burnham Boiler Corporation

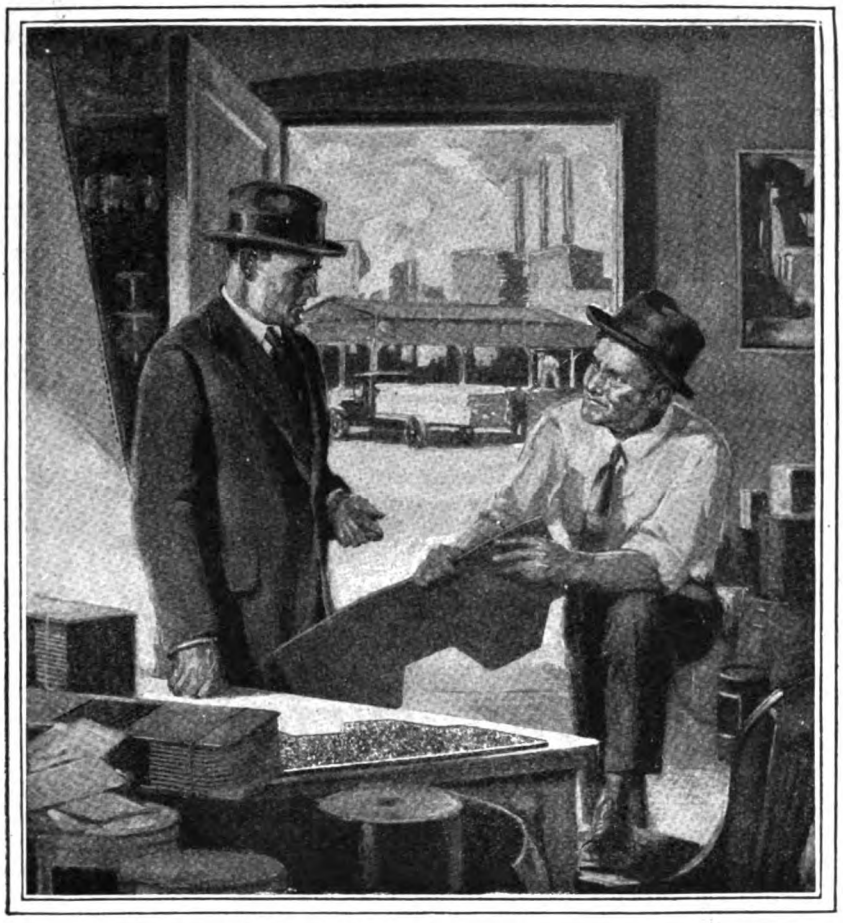
Irvington, N. Y.

Representatives in all Principal Cities

Canadian Offices:
Harbor Commission Bldg., Toronto
124 Stanley Street, Montreal

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for ROOFS



Demand answers to these questions before you buy *any* roofing

DON'T be satisfied with such meaningless terms as "high quality," "durable," etc., when you select roofing. Get specific statements — and proof of them — when you buy. Ask these questions and prove the answers by actual demonstration:

1. ***Is this roofing strong and husky?***
   Twist it; bend it. See if it is tough, if it creaks or breaks. Has it enough weight and body to lie flat, without curling, in the face of sun, wind and weather?
2. ***Is the slate firmly imbedded in the surface?***
   Put it on the floor. Kick it, scuff it. Note whether the small particles of crushed slate stay on or come off. What will sliding ice do to it?
3. ***How do extreme temperature changes affect it?***
   Put it on ice; then pour hot water on it. Watch the results carefully. Does this extreme and sudden change of temperature impair it in any way?
4. ***Will it "run" under extreme heat?***
   Put a sample on a hot radiator. Whatever happens to the sample will happen when this roofing is exposed to blistering sun, on your home. Don't buy roofing that "runs."
5. ***Will this roofing absorb water?***
   Roofing should *shed* water — not absorb it. Soak a piece and weigh it. Avoid roofings that hold moisture.
6. ***Is this a fire-safe roofing?***
   Will flying embers ignite the roofing you put on your home? Ask if it is approved by the National Board of Fire Underwriters. Demand a demonstration.

These are exactly the conditions your roof must face and the *"6 Daring Tests"* we invite you to make of Beaver Vulcanite Roofing. Mail the coupon for a free sample and don't squander a penny for any roofing that fails to endure these tests. Know what "high quality roofing" means. Check the coupon for your sample now.

BEAVER PRODUCTS



Beaver Vulcanite Plain and Slate-surfaced Roll Roofing



Beaver Vulcanite Special Re-roofing Shingles in Beautiful Colorings



Beaver Vulcanite Self-spacing Shingles

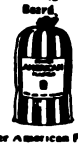


Roof Paints and Cement

for WALLS



Beaver Jumbo-Weight Fibre Wall Board



Beaver American Plaster



Beaver Bestwall — the superior plaster wall board

Ask how you can Re-roof *or* Remodel *Now*

Take 10 months to pay

FREE
samples and complete details

The Beaver Products Co., Inc.
Dept. **BD**, Buffalo, N. Y.
(or) Thoroid, Canada.
(or) The Beaver Board Co., Ltd.,
133-136 High Holborn, London, England.

Gentlemen: Please send me samples and descriptions of Beaver Vulcanite Roofing and other Beaver Products listed below.

.....

.....

.....

Name.....

Address.....

City..... State.....

☐ Check here if you want details on how you can re-roof or remodel your home now and take 10 months to pay

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Let them have "the BEST Glass" It costs no more



A strong glass with a flat surface

BUILDERS who are winning a reputation for themselves are those who do not underestimate the importance of small and seemingly commonplace items. Because the cost of window glass is trifling compared to the cost of other material is no reason to disregard the prominent part it plays in beautifying a house. This is especially true when you consider that you can buy "The BEST Glass"—clear and flat, exceptionally strong—for the same low price as the ordinary kind.



The perfection of our flattening process is better grasped if you will bear in mind that we are the only manufacturers thus far able to make glass sufficiently flat for use as camera and X-Ray plates.

Two annealing processes guarantee sound annealing of "The BEST Glass," upon which depends its life, its strength and freedom from excessive breakage.

Our new method of flattening imparts a perfectly smooth surface to the glass without destroying the brilliant lustre obtained in the drawing process. The result of this flattening method is a window glass of dependable evenness, amazingly free from blisters, cords and other defects—a glass which may be glazed with either side out.

The entire process of manufacturing "The BEST Glass" is conducted on scientific principles and in accordance with improved methods. Builders and architects have learned to depend on our glass for clearness, strength and superior grading.

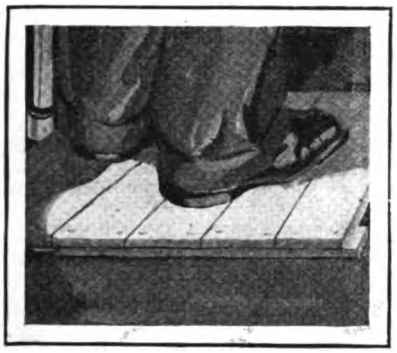
The elliptical trademark and the grade markings on every box of the genuine guarantee the quality. Insist upon "The BEST Glass."

AMERICAN WINDOW GLASS CO.

The BEST Glass — World's Largest Producer of Window Glass — The BEST Glass

GENERAL OFFICES: PITTSBURGH, PA. BRANCHES IN PRINCIPAL CITIES

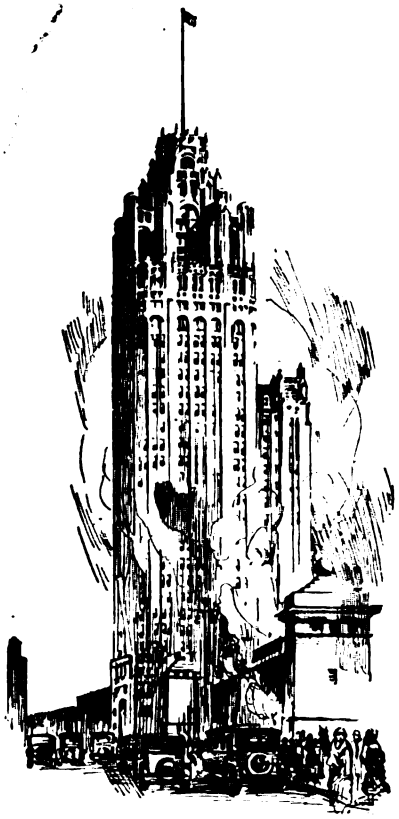
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Instinct tells him what *Science* tells you

Perhaps the man who uses a scrap of wood as a cushion between his feet and a concrete floor would simply tell you that it gives him "the miseries" to stand on that hard, cold floor.

Science would tell you more. It would present figures gathered by great business firms, showing that men who stand on concrete do less work in a day—take off more time on account of sickness, and change jobs oftener.



Science can also tell you more about the advantage of laying a Maple floor over concrete. Maple polishes, where stone pulverizes, from wear. Tough-fibred, tight-grained Maple becomes smoother and smoother under the traffic of feet and trucks, while stone-like floors give off a fine dust which may feel like flour to your fingers, but in the bearings of machines it cuts like diamonds.

Floor with Maple in your factories and industrial buildings, and you protect both your men and your machines. Floor with Maple in stores, offices, public buildings, schools—and all the places where people stand, or work, or walk. For longer service, a smoother surface, and greater human comfort, experience proves that maple is the floor to use.

In the Tribune Tower, Maple has been chosen as the flooring for the press rooms. Anyone who knows the rush and turmoil with which each new day's issue of a great newspaper is published, knows that the floor which must withstand this usage meets a hard test of service and contributes to human efficiency, keyed to the highest pitch.

MAPLE FLOORING MANUFACTURERS ASSOCIATION
1055 Stock Exchange Building, *Chicago*

Guaranteed Floorings

The letters **MFMA** on Maple, Beech or Birch flooring signify that the flooring is standardized and guaranteed by the Maple Flooring Manufacturers Association, whose members must attain and maintain the highest standards of manufacture and adhere to manufacturing and grading rules which economically conserve every particle of these remarkable woods. This trade-mark is for your protection. Look for it on the flooring you buy. **MFMA**

Floor *with* Maple
Beech *or* Birch

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Lupton Casements in Residence of H. N. Foster, Esq., Ashland, Ky. Tyson & Foster, Architects.

** Honorable mention "House Beautiful" Small House Competition.*

You'll notice that most of the *Prize-Winning Houses have Steel Casements

IT'S quite natural, considering how casements of steel lend their slender lines to charming designs and their correct proportions to harmonious composition.

And when Lupton Casements are used, you have full assurance of long and satisfactory service. Owners give "honorable mention" to contractors who provide them with Lupton Casements of copper-steel.

Of rigid design, stoutly welded, with close weathering contacts and serviceble hardware, Lupton Casements appeal to good builders everywhere. They have set a new standard of window comfort and beauty, combined with lasting convenience. Let us send you our new Casement Catalogue C-122.

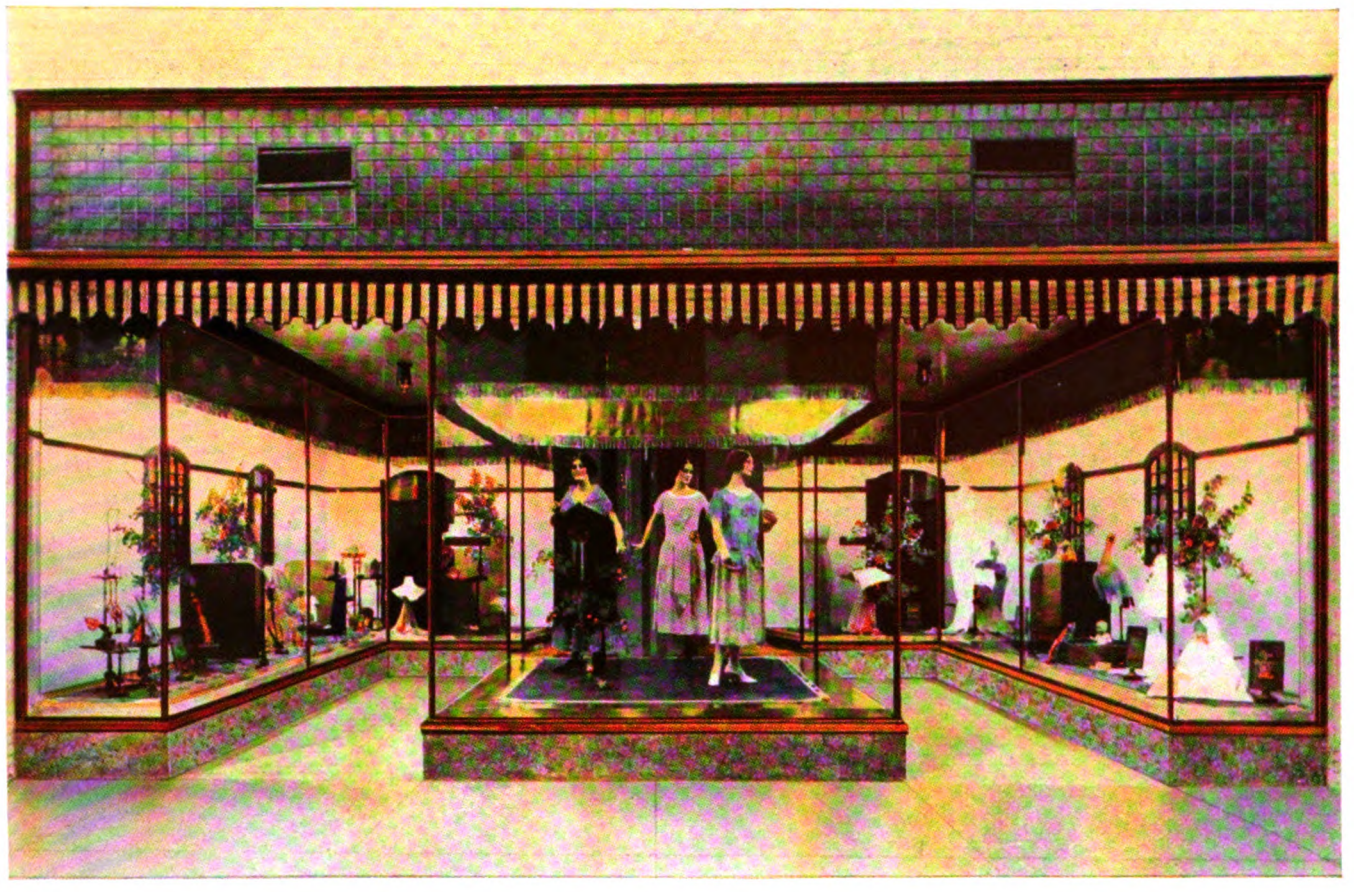
DAVID LUPTON'S SONS COMPANY
2249 E. Allegheny Avenue Philadelphia, Pennsylvania

Atlanta Baltimore Boston Buffalo Chicago Cleveland Dallas Detroit Los Angeles Newark New York Pittsburgh

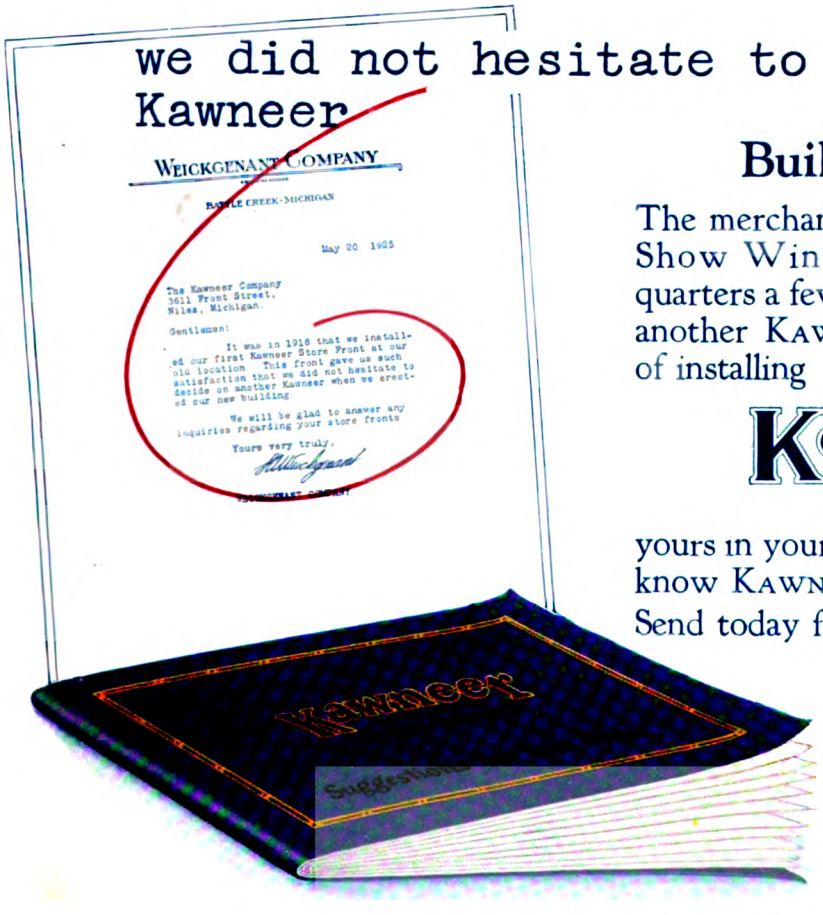
LUPTON

STEEL WINDOWS EVERYWHERE

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we did not hesitate to decide on another Kawneer



Build Repeat Business

The merchant for whom you install KAWNEER Show Windows this year will require larger quarters a few years hence. Then he will want another KAWNEER Front. Make this business of installing

Kawneer
SOLID COPPER
STORE FRONTS

yours in your city. Merchants everywhere know KAWNEER.

Send today for Contractors' Design Book.

The KAWNEER Company
2825 N. Front St.
Niles, Mich.

Send me free "Contractors' Design Book."

NAME .....

ADDRESS .....

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Utilize Kawneer Advertising to Help You Secure More Business

THIS is the first of a new series of colored advertisements which will appear monthly in this publication, also leading retail trade paper publications covering Jewelry, Furniture, Hardware, Men's and Women's wear, Shoes and Electrical stores and shops. This KAWNEER color advertising will be supplemented by advertising in other retail fields, as well as in the leading architectural publications.

You can use this advertising to secure profitable contracts. Show it to prospective clients, advancing the many reasons for using KAWNEER Solid Copper Store Fronts to modernize their show windows either in new buildings or when remodeling.

Write us today for other sales literature which will assist you in closing contracts for store front work.

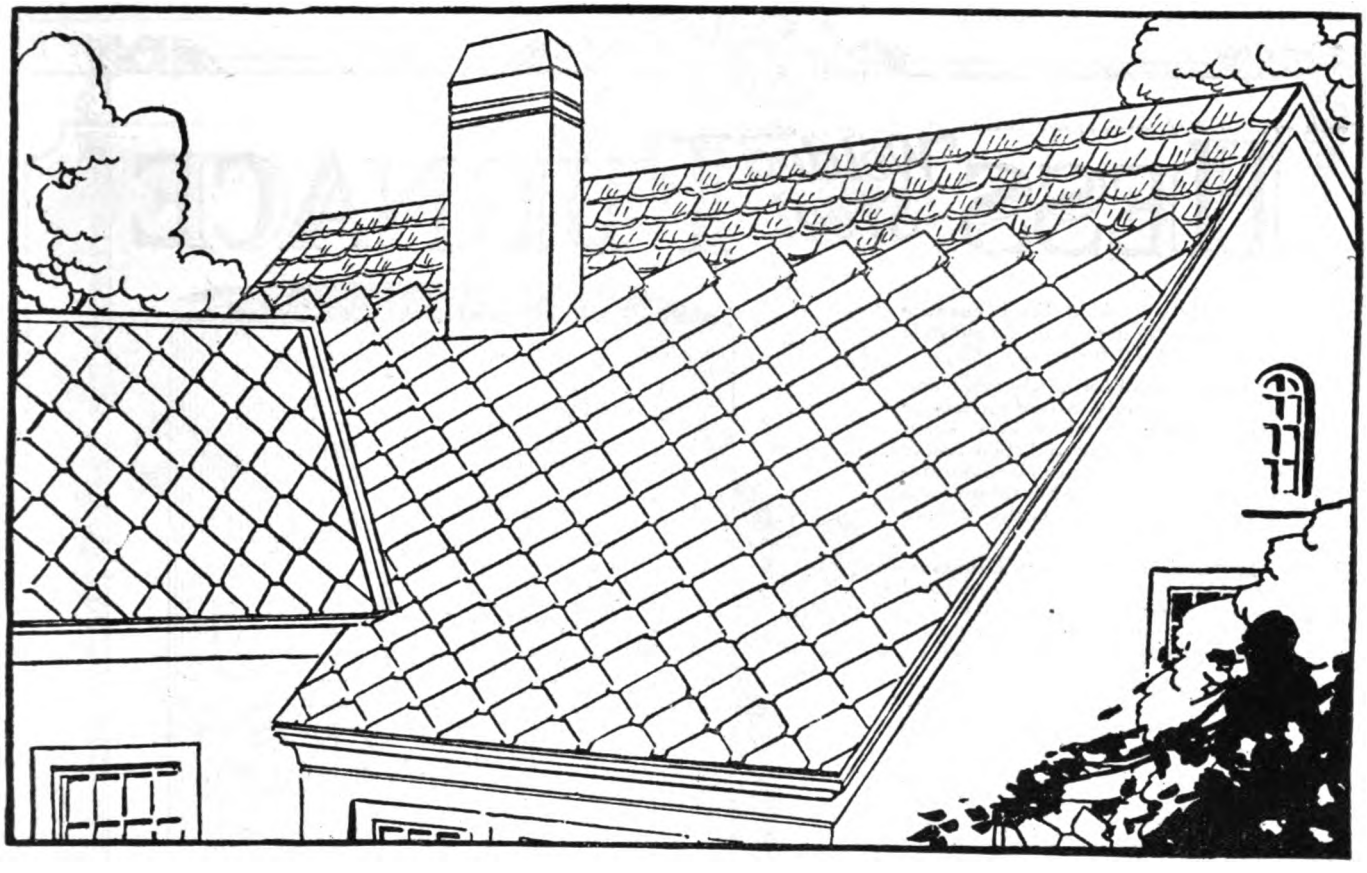
Do not overlook the six points of KAWNEER superiority illustrated below.

See KAWNEER Store Front illustrated on preceding page



Over a quarter of a million in twenty years

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They Turn Time Into Profits

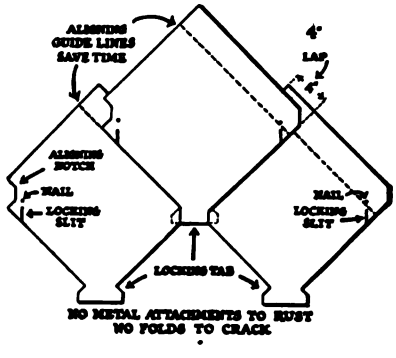
WHEN you do a re-roofing job with Ruberoid Re-roofers, you finish it in record-breaking time, because—

1—You lay them over the old wood shingles and save the time and trouble of removing the old roof.

2—Ruberoid Re-roofers are the fastest laying shingles on the market.

3—You use only 56 shingles and drive only 112 nails to cover 100 square feet.

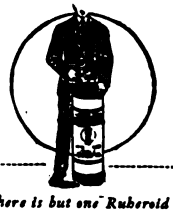
4—The shingles are self-aligning. They interlock easily —no metal attachment to slow up the work.



The finished roof is one of the highest quality—Ruberoid quality —the kind that has lasted twenty, twenty-five, and thirty years and is still giving excellent service. It's a roof you will be proud of and one that will boost your business.

Double locking tabs prevent Ruberoid Re-roofers from curling or lifting with the wind. They are surfaced with sage-green, tile-red, and steel-blue genuine slate.

If you want to know more about these profitable Re-roofers, drop us a line. We will send you samples and instructions for laying. The coupon is for your convenience.



There is but one Ruberoid
Look for the Man on the Label

The RUBEROID Co., Dept. 2
95 Madison Ave., New York.

Gentlemen: Please send me samples of Ruberoid Re-roofers and instructions for laying.

Name .....

Address .....

RU-BER-OID
SHINGLES AND ROOFING

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HESS *Welded Steel* FURNACE

The Hess Welded Steel Furnace eliminates the defects of the old style Cast iron "Pot" furnace.

Firebox, combustion chamber and ashpit are entirely inclosed in a huge steel radiator, in which every seam is sealed by riveting and then fusing the steel so it becomes one continuous piece. We guarantee these seams never to leak as long as the furnace shall stand.

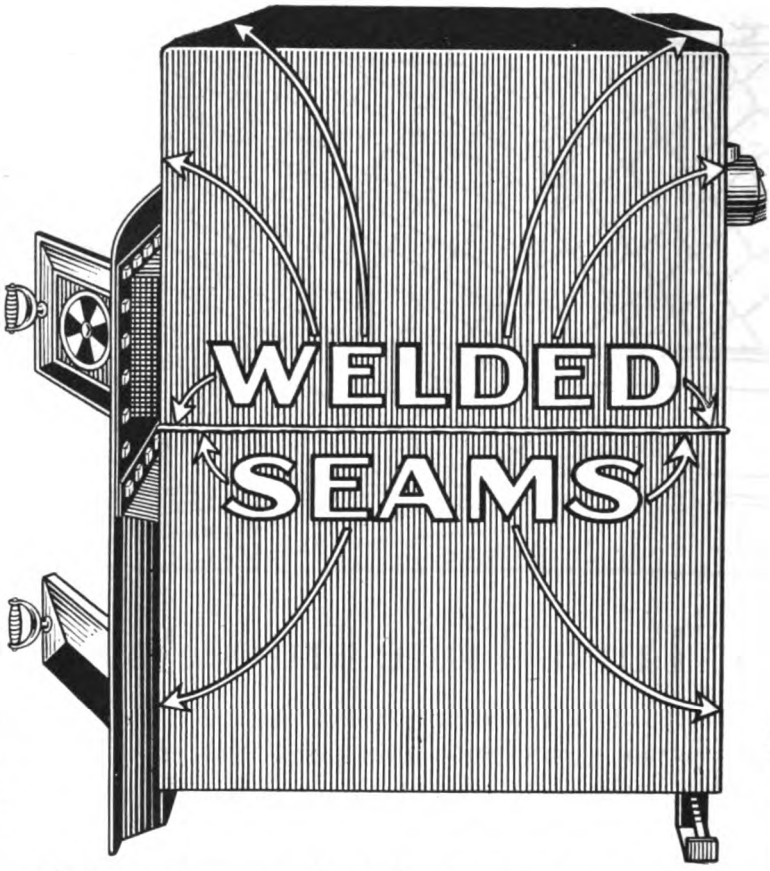
The area of this steel radiating surface is very large— evenly heated and radiates heat much faster than cast iron. A newspaper burned in it creates perceptible heat in the pipes.

All inner parts are placed through the fire door, without disturbing any part of the furnace or pipes, the cost of repairing therefore is trifling.

The grates area is large,— locomotive style,— and combustion, even with cheapest fuel, is perfect. Ideal for oil; the firebrick lining maintains the intense heat necessary for good combustion, and the welded seams and air tight construction prevent escape of odors.

Ample humidity is supplied by a water pan placed high, where the water heats and evaporates rapidly.

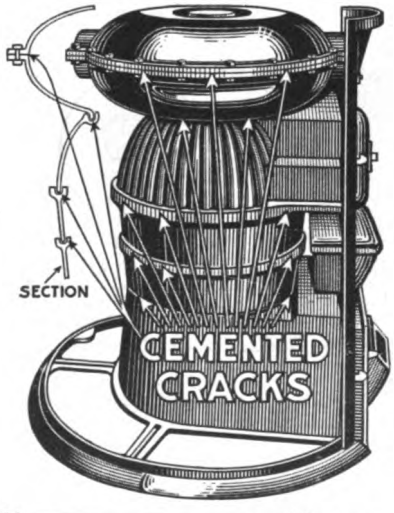
Any handy man can install it. We will loan you tools and give you full illustrated instructions. We make all pipes and fittings to fit your house, to your measurement.



Send us a sketch and let us show you how your local dealer, or you yourself, can install the outfit and secure perfect success, guaranteed by us. Our *plan service* is free, no charge nor obligation.

SOLD ON EASY PAYMENTS TO RESPONSIBLE BUYERS. SPECIAL RATES TO CONTRACTORS.

Ask for our illustrated book on furnace heating. It will interest you.



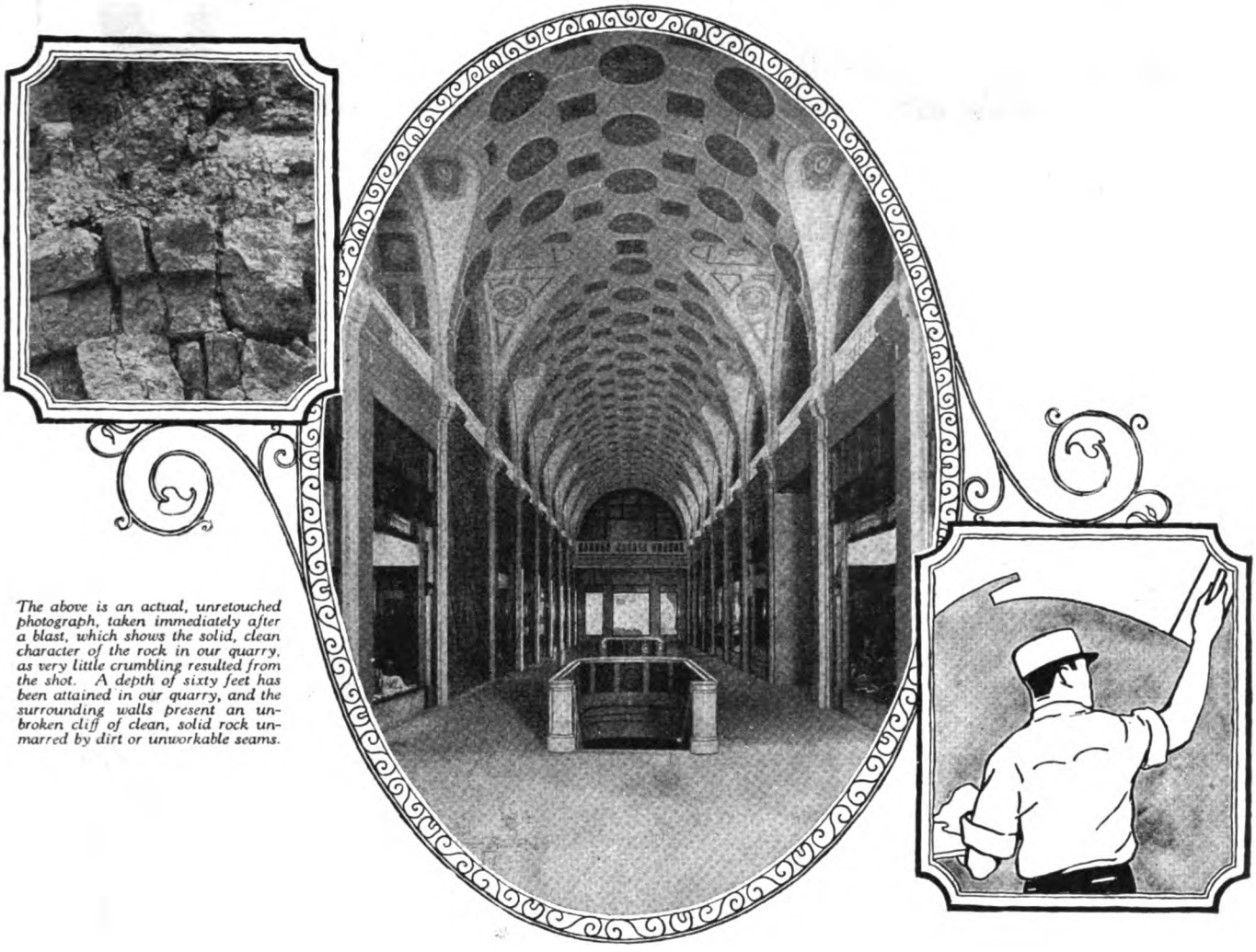
HESS WARMING & VENTILATING COMPANY
1201-L South Western Avenue, - Chicago

BRANCHES AT; BROOKLYN DETROIT CINCINNATI
MILWAUKEE MINNEAPOLIS

The old type of cast iron "pot" furnace with 30 to 60 feet of cracks, small and unevenly heated radiating surfaces. Established a reputation for dirt and dust, and lives up to it. WE DO NOT MAKE THIS KIND.

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THE QUALITY IS IN THE LIMESTONE



The above is an actual, unretouched photograph, taken immediately after a blast, which shows the solid, clean character of the rock in our quarry, as very little crumbling resulted from the shot. A depth of sixty feet has been attained in our quarry, and the surrounding walls present an unbroken cliff of clean, solid rock unmarred by dirt or unworkable seams.

Limestone, like ore, coal and other products of nature, varies greatly in quality and composition. Our quarry is a natural deposit of limestone, the equal of which has never been found for the production of lime that leaves nothing to be desired in purity, whiteness, easy working qualities, spreadability and exceptional strength. Naturally, a lime made from this remarkable limestone produces a finish and an all around building lime that is specified and used wherever results of the highest character are demanded. There is a building supply dealer in your territory who handles one of our brands.

THE WOODVILLE LIME PRODUCTS CO.
Toledo, Ohio

White Enamel Finishing **Gold Medal Hydrated Lime** **White Lily**

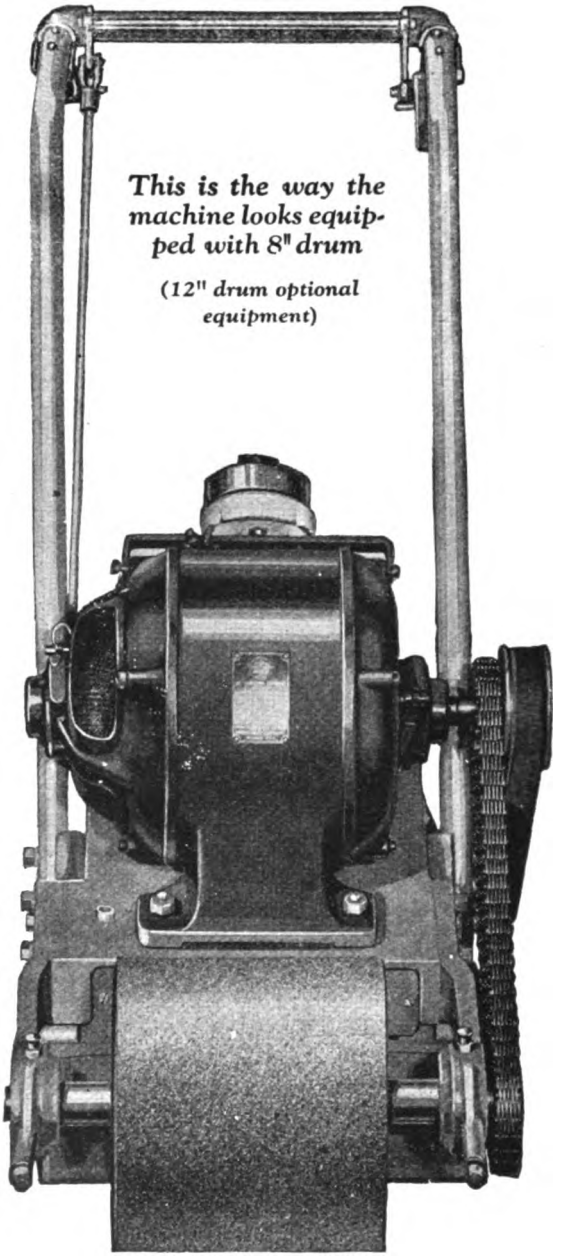
IT'S QUALITY FROM STONE TO FINISH

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MASTER

The Latest and Most Improved

FLOOR SANDER



This is the way the machine looks equipped with 8" drum

(12" drum optional equipment)

For your own sake, don't think of buying a floor sander until you have secured full information about the Master. It is without question the latest, most improved—most efficient and economical machine on the market.

This is a large promise to make for it. But any experienced operator will instantly see that the machine lives up to the promise in every particular.

Consider these details—Weight only 230 lbs. with 150 lbs. on the drum when operating. No machine approaches this large percentage of useful weight. Consequently, it cuts much faster and is more easily operated.

Think of the increased work your operators will turn out when you give them this machine that does not require a continual lift to apply pressure on the drum.

And you will be astonished to see how much faster you will be able to clean floors and roll up profits by using the 8" drum. It has little or no levelling action so it cuts faster than a 12" drum, as much less material has to be ground off.

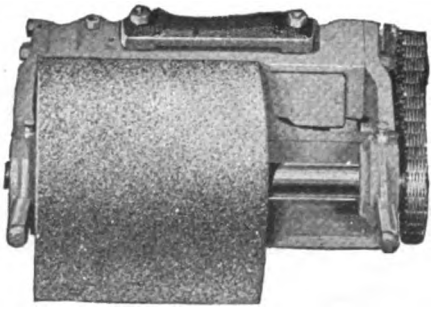
And think of being able to buy this machine at such a small initial payment and such trifling monthly payments that it will more than pay for itself as you use it.

Master Wood-worker Mfg. Co.
612 Brush Street
Dept. A
Detroit, Mich.

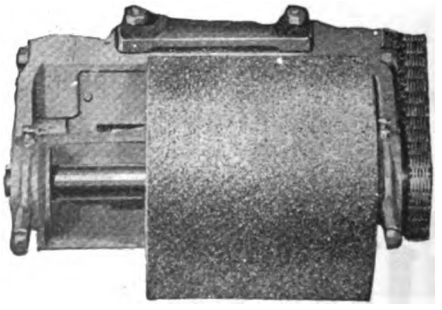
Send me your new folder together with offer showing how I can buy a Master Floor Sander on small payments allowing machine to pay for itself.

*Name*_____

*Address*_____



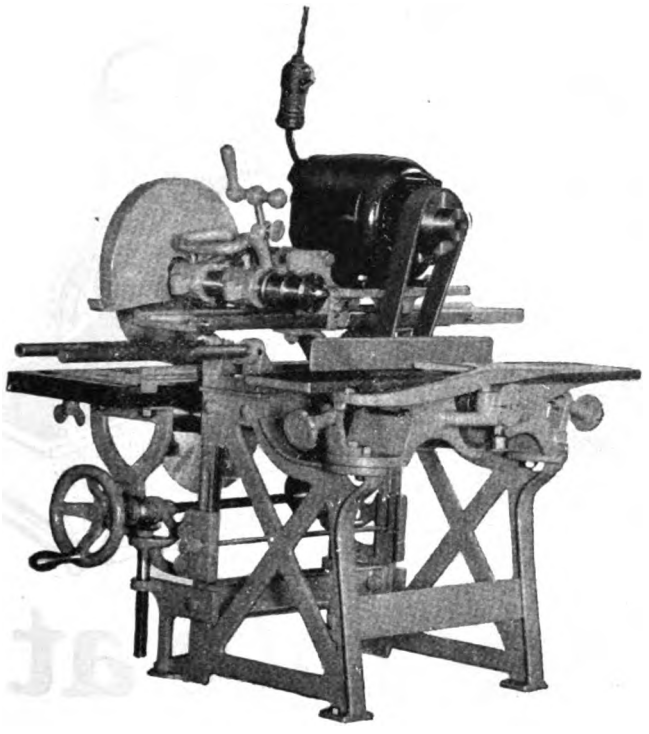
Drum moved to right within 1" of wall



Drum moved to left within 3" of wall

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MACHINES



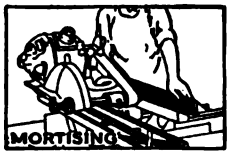
The World-Famous Master—

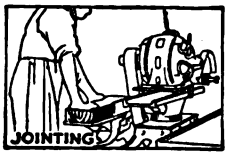
WOOD-WORKER

Here Is a Fact That Deserves Careful Thought

Do you know that thousands of successful contractors now own and operate Master Woodworkers, each one of them saving 4 to 6 men's labor?

12 Machines in One—Runs on a Lamp Socket







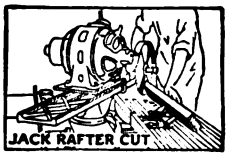
Many of these contractors are probably your competitors. They have the advantage of you—an advantage they have no right to possess. They can bid lower on work and turn out more and better work than any contractor can without one of these marvelous machines.

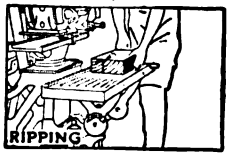
The model illustrated is No. 10, specially adapted for inside finishing. The Master is also made in three larger models, suitable for heavy mill work and for making every cut necessary for house building.

The No. 10, illustrated, handles 1" stock and saves over one-half the labor on inside finishing, making every cut necessary. It runs from a lamp socket—easily carried from room to room and can be quickly taken down in three parts and carried away in the tool box.

Whether you think you are in a position to buy immediately or not, we ask you for your own sake to fill out and mail the coupon below and learn all about the Master. You will probably be surprised to see how easily you can buy one and pay for it out of the profits it makes without a cent of expense to you.







Master Woodworker Mfg. Co.
612 Brush Street
Dept. A
Detroit, Michigan

Send me your New Catalog and Easy Payment Plan.

Name_____

Address_____

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Jaeger
A MIX A MINUTE

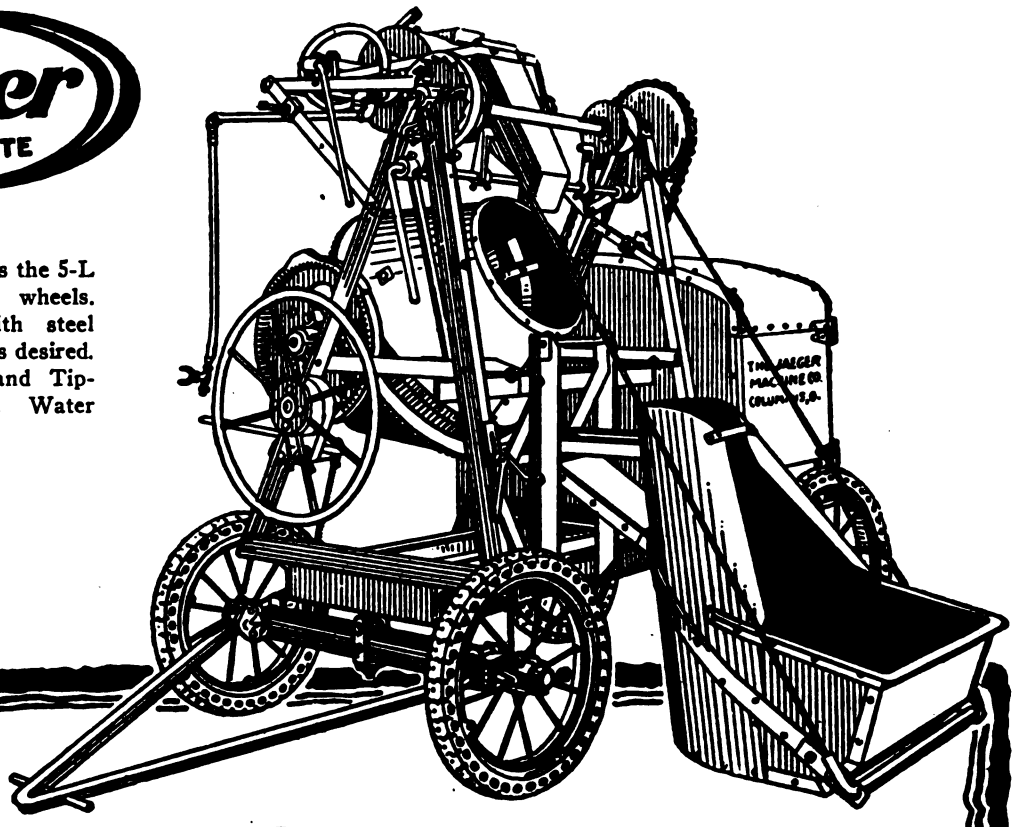


ILLUSTRATION shows the 5-L Jaeger on cushioned wheels. Can be equipped with steel wheels or pneumatic tires as desired. Note the power loader and Tip-Over Accurate Measure Water Tank.

Perfect Concrete at "Mix-a-Minute" Speed!

SPEED that makes profits on every mix! Dependable performance at all times! Low cost of operation! And perfectly mixed concrete! These are the remarkable advantages a Jaeger Mixer brings you.

WHETHER you build skyscrapers or garden walks—concrete block or bridges—there is a Jaeger model for your exact needs. There are 36 different concrete mixers in the Jaeger Line. They range in capacity from 3 to 24 cu. ft. of unmixed materials and 2 to 14 cu. ft. of mixed concrete.

Our Distributors Carry a Complete Stock of Jaegers

A COMPLETE stock of Jaeger Concrete Mixing Outfits and a full supply of parts is carried in over a hundred of the principal cities of the U. S. Our distributors will welcome the opportunity to demonstrate Jaeger Quality to you. They want you to see for yourself the exclusive patented Jaeger Tilting Drum—the exclusive patented Tip-Over Water Tank—the exclusive patented Automatic Discharge Device—and other characteristic Jaeger features.

QUALITY built in every part, Jaeger Mixers are first choice with over 30,000 contractors. For dependable, trouble-free service—year after year—they have no equal. Write us today for our latest catalog and the name of our nearest dealer.

The Jaeger Machine Company

216 Dublin Road **Columbus, Ohio**

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EXTRA Profits On EVERY Job

with the

FREE-O-DUST

Super Surfacer



Today there are no buildings without floors and every one of them must be surfaced. Hand scraping is slow and hard and yields only a very small profit compared to when the work is done with the FREE-O-DUST Super Surfacer.

The automatic operation of the machine makes the work very easy and assures better and faster work. Within half an hour any one of your helpers will be going along like the best of them.

The only machine on the market that picks up every particle of dust on the forward as well as on the backward movement. This is of particular advantage when resurfacing old floors in buildings that are occupied and protects the health of the operator by preventing him from inhaling the poisonous substances that often accumulate in wood flooring.

Can be operated right up to the baseboard and has many other exclusive features. Will pay for itself on the first few jobs and add from one to five thousand dollars to your profits every year.

It does not obligate you to write for details about our FIVE DAYS' FREE TRIAL offer and free copy of our booklet "A DAY'S WORK." Write today. This booklet gives facts, figures and full information on how you can do "A WEEK'S WORK IN ONE DAY."

ELECTRIC ROTARY MACHINE CO.

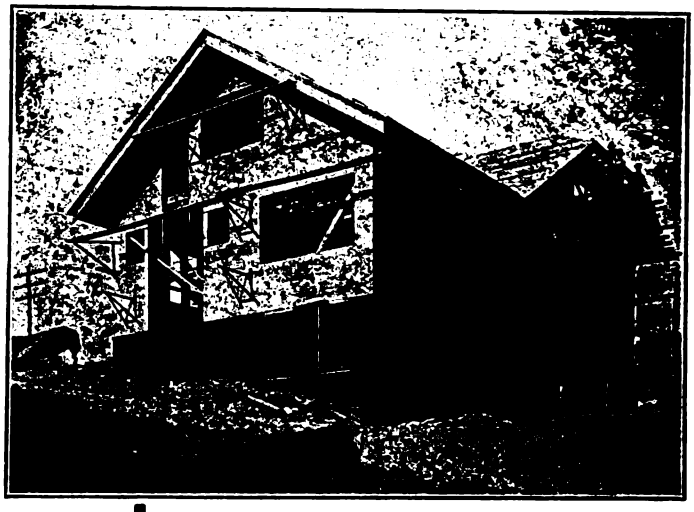
3833 W. Lake Street, **Chicago, U. S. A.**

Manufacturers of floor surfacing machines for twenty years.

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For Speed, Safety, Lower Costs,

Use *Trouble Saver* Steel Scaffolding



We daily receive letters from users all over the country, telling us of their complete satisfaction with their ***Trouble Saver*** equipment.

In scaffolding a house, two men with ***Trouble Savers*** can beat a gang of ten men working with lumber. And in taking down ***Trouble Savers*** there is the same speed, with the big added advantage that there are no nails to pull and no second-hand or waste lumber.

In use, ***Trouble Savers*** are absolutely rigid and many times stronger than wood. Your men feel perfectly at ease on ***Trouble Savers*** with the result that they do faster and better work.

Trouble Savers are also collapsible and can be folded, which means time and money saved in moving from one job to another and in storing.

All of these factors help to reduce your overhead and add that much more to your profits column.

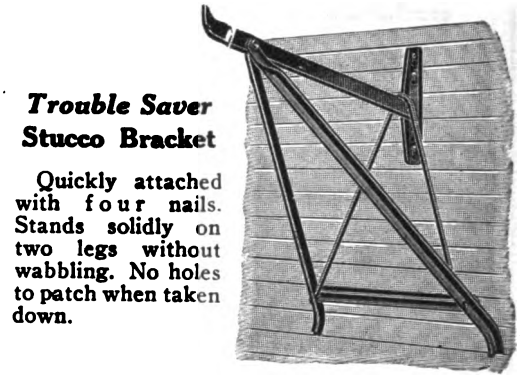
Here is just what a few of our thousands of users say:

"Rightly named"—"Best ever"—"Safest scaffold made"—"Paid for themselves on first job"—"Quick and handy"—"Our men feel safe on ***Trouble Savers***"—"The finest thing for quick work and safety."

Send in your order today, or send for further information. It may mean the difference between a good profit or a loss on your next job.

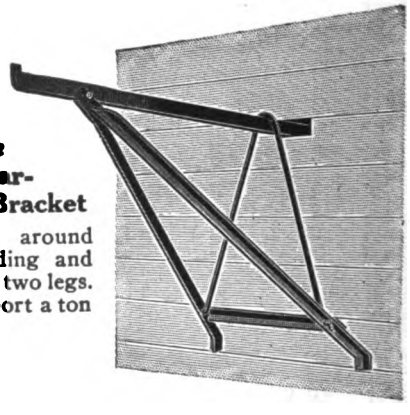
The Steel Scaffolding Co.

Evansville, Indiana



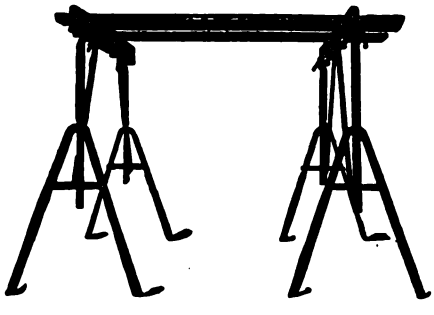
Trouble Saver **Stucco Bracket**

Quickly attached with four nails. Stands solidly on two legs without wabbling. No holes to patch when taken down.



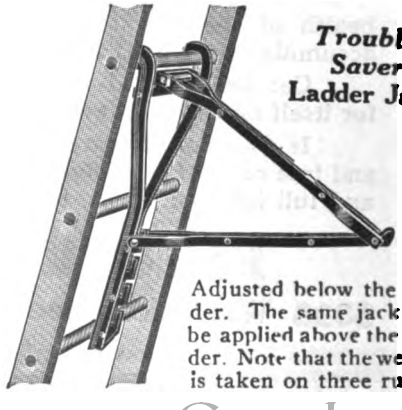
Trouble Saver **Carpenter Bracket**

Hooks around the studding and stands on two legs. Will support a ton weight.



Trouble Saver **Adjustable Steel Trestles**

Come in six different sizes that give a range in height from 16 inches to 10 feet. A strong solid trestle that is easily and quickly erected and adjusted. Write for detailed information and prices.



Trouble Saver **Ladder Jack**

Adjusted below the ladder. The same jack can be applied above the ladder. Note that the weight is taken on three rungs.

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WONDER MIXERS



WONDER Trailer



WONDER "3½"



WONDER "5"

The 1925 Models Offer

—Improved design throughout
—Increased power plants
—Lower prices

THUS continues the supremacy WONDER has held for fifteen years.

The 1925 models of WONDER mixers prove conclusively that WONDER quality is never sacrificed for price.

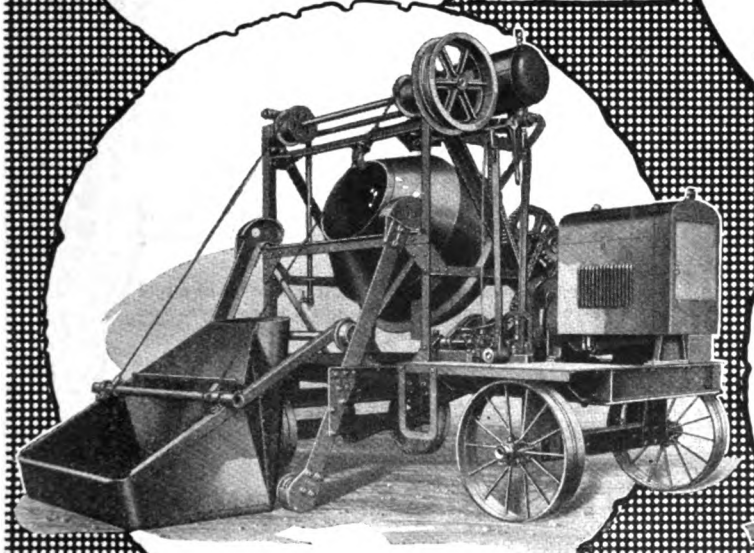
The new WONDER catalog illustrates and describes these new features.

Send for your copy today!

Construction Machinery Company

General Offices and Factory
WATERLOO, IOWA

Factory Branch Offices
LOS ANGELES INDIANAPOLIS
PHILADELPHIA

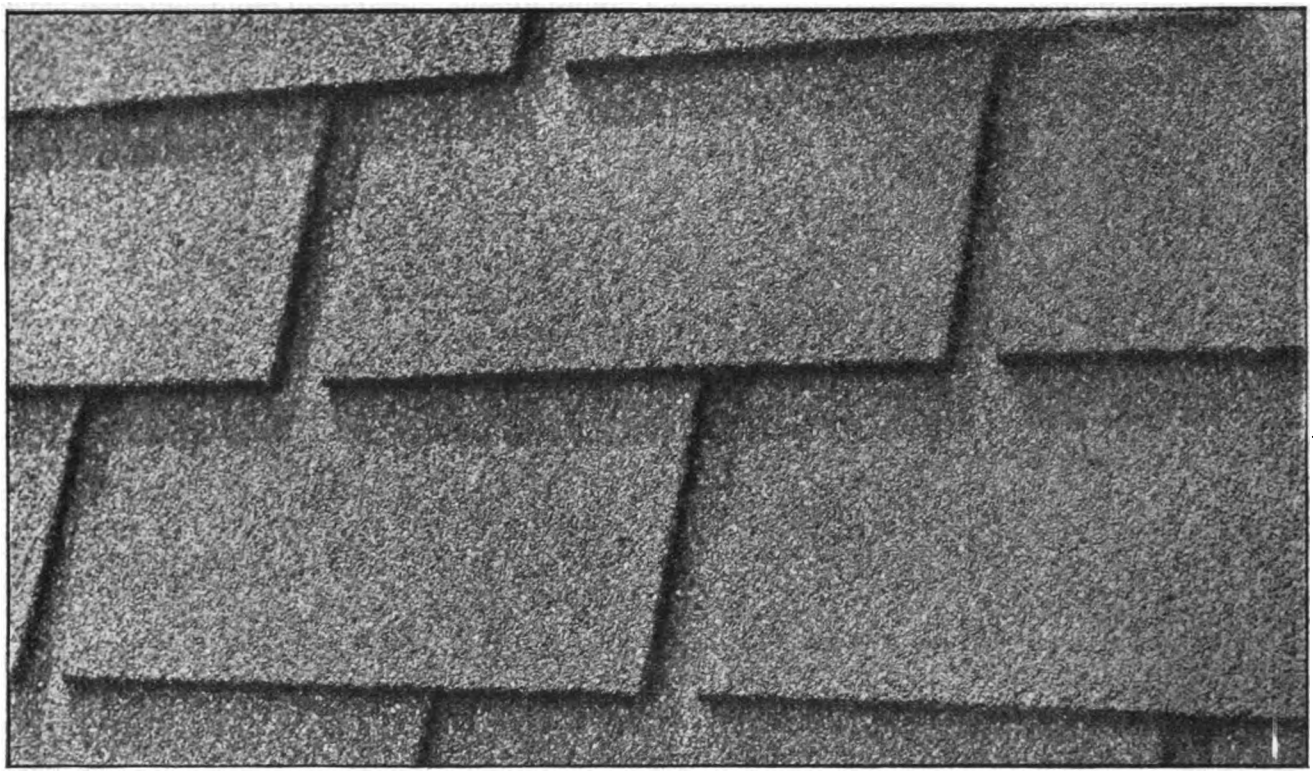


WONDER "14" with Track Loader



WONDER "7" with Track Loader

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Winthrop shadow lines give real beauty to a roof

In this picture of an actual roof you can see that the shadow lines of an old wood shingle roof are really cast by the thick butts of Winthrops. But don't judge by picture alone. Consider what your roof will be ten years from now.

The records of Winthrops through year after year of wear and weather show that in these exclusive shingles beauty is permanent. The shadow lines cast by their thick butts do not disappear.

-the Big Butt Shingle

Winthrop Tapered Asphalt Shingles

The Taper of the Winthrop is the strongest quality feature ever put into a slate-surfaced asphalt shingle.

The thick butts are built up of extra coats of everlasting asphalt on both sides of the heavy felt core.

This taper provides the greatest thickness where exposure to weather comes. It casts the shadow lines that made the old time wooden shingles popular.

The thick butts of Winthrops lie close and snug, proof against rain and wind and snow. They do not curl, crack, rot, split nor rust.

Non-fading crushed slate anchored into the everlasting asphalt gives to Winthrops their beautiful and lasting surfaces.

Laid over old shingle roofs, Winthrops have no equal as a re-roofing shingle. Remember this when you figure on your fall re-roofing jobs.

We want you to see the quality and beauty of Winthrops for yourself. We want to send you, free, an actual full-size Winthrop. Will you send your name and address? Let us hear from you now.

Beckman-Dawson Roofing Company

830 F. C. Austin Bldg., 111 W. Jackson Blvd., Chicago, Ill.

Also manufactured by

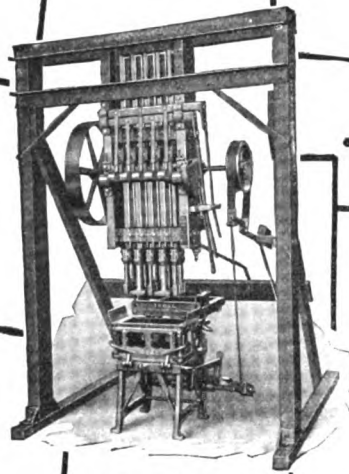
Lockport Paper Co., Lockport, New York

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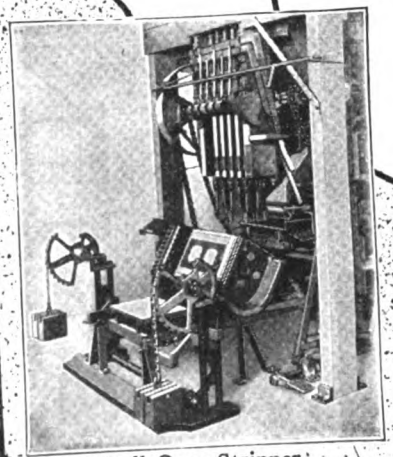
★ Roll-Over Stripper
⊙ Vertical Stripper
● Power Tamper
Star within circle indicates both Roll-Over and Vertical Stripper.

IDEAL
TRADE MARK REG. U.S. PAT. OFF.

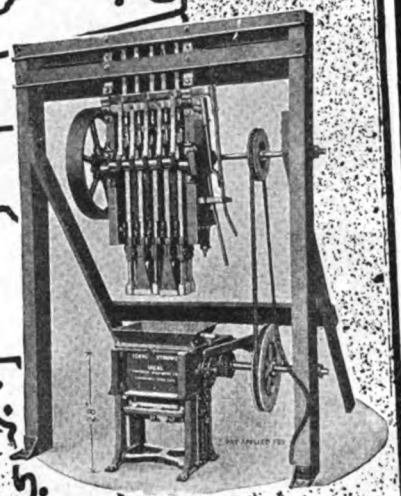
Covers the Country



Power Tamper



Roll-Over Stripper



Vertical Stripper

IDEAL

THE IDEAL CONCRETE MACHINERY CO.
5000 SPRING GROVE AVE. CINCINNATI, OHIO

TRADE MARK IDEAL REG. U.S. PAT. OFF.

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Specify a door that will *never* warp or twist!

CONTRACTORS tell us they have to *rehang* ordinary doors because they absorb moisture and swell tight. Often this moisture is "*caught*" from fresh, damp plaster. Another cause is leaving a room vacant without heat for a time so that it takes on a damp mustiness, causing doors to *stick and jam.*

By applying a scientific principle to wooden door construction Laminex has overcome this fault.

The cost of Laminex doors *throughout* the ordinary home is only a fraction more than the cost of ordinary solid doors. Rehanging or replacing of *just one* warped or twisted door would cost much more than the little extra paid for Laminex.

Laminex is made of *old-growth* Douglas-fir—with flat grain stiles, rails and panels, or with vertical grain stiles and rails. Laminex is the achievement of 36 years' research by the world's largest door manufacturer. It is built up by a "crossing" of layers called "lamination," and combining under tremendous pressure with a wonderful waterproof cement—much different from doors with solid stiles and rails, which have no counter-check against warping!

To specify Laminex is to reflect what is doubtless in your client's mind—for Laminex is nationally advertised in the Saturday Evening Post and many other publications.

Send for interesting free monograph on Laminex construction. We will also send actual sample of Laminex wood so that you may make the famous water test for yourself.

THE WHEELER, OSGOOD COMPANY, Tacoma, Washington

Sales Offices: *New York Chicago, Memphis, Los Angeles, San Francisco, Spokane, London, England*

Manufacturers of Laminex Doors Woco Doors and Fir Sash

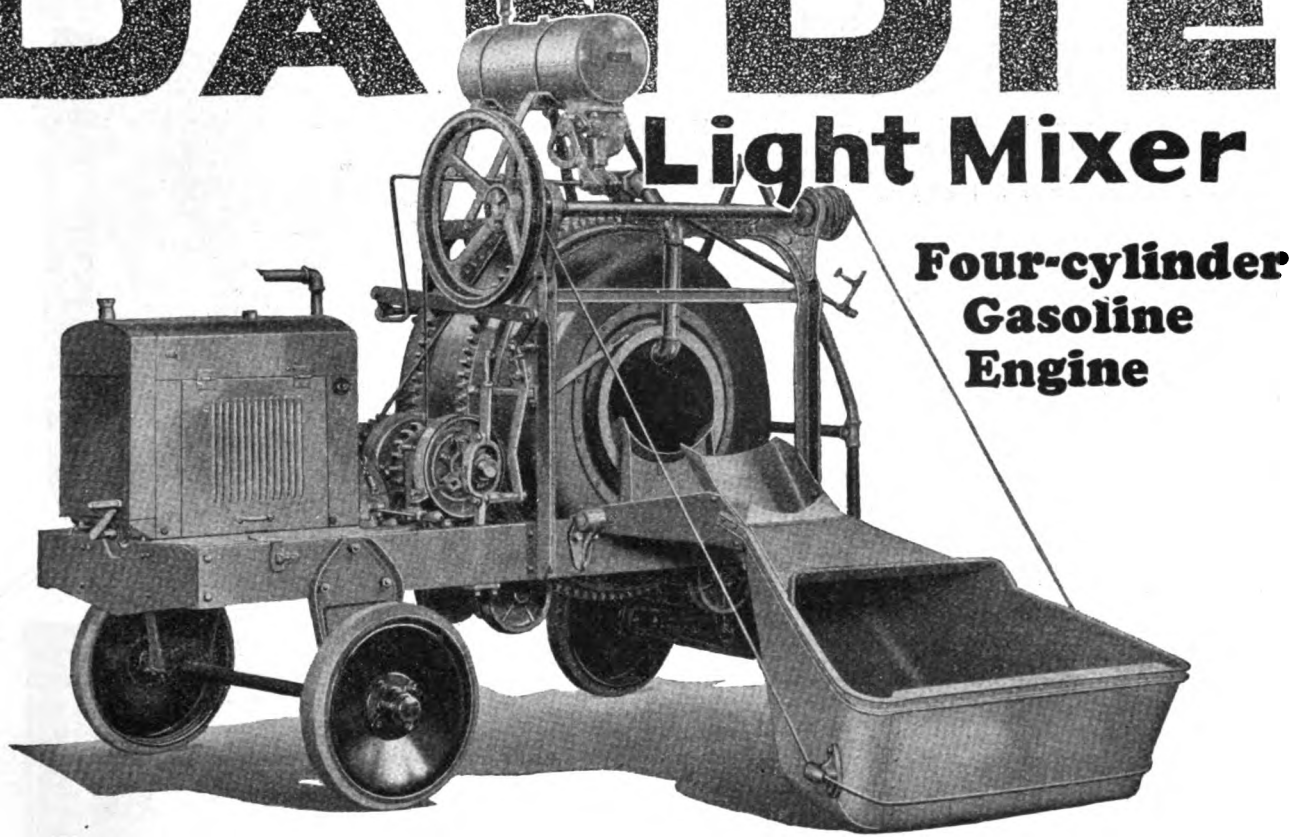
SINCE originated a year ago by the Forest Products Laboratory, University of Washington, this famous Laminex water test has been successfully repeated by Dayton Sash and Door Company, Dayton; McPhee and McGinnity, Denver; Hartman Company, New Orleans; Tacoma "Own Your Home" Exposition, Tacoma; Cole Manufacturing Company, Memphis; Macaulay, Brooklyn; California Industrial Exposition, San Francisco; South Texas Fair, Beaumont; and other leading door distributors and building material expositions. Under this rigorous test, no Laminex door has ever warped or come apart!

LAMINEX DOORS

WILL NOT SHRINK, SWELL OR WARP

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KOEHRING DANDIE Light Mixer



Four-cylinder Gasoline Engine

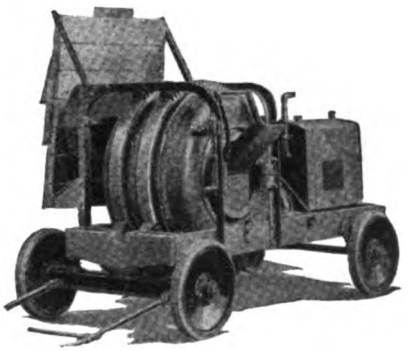
FAST! Fast! Fast! Here is a light mixer with a speedy charging skip, liberal drum dimensions and a high speed discharge that will break all your records of putting concrete where it pays you profits!

Just the balanced light weight to haul behind your truck on its rubber tired disc wheels and get from job to job in a big hurry.

Four cylinder, radiator cooled, gasoline engine. Transmission from engine to drum enclosed in oil bath! Double gear drum drive, chilled, beveled gears! Drum rollers fixed to shafts revolving in big bearings!

It's useless to try to give you the smallest idea of what this Dandie represents in superior speed and construction details—but it's *strong, rugged*—it will stand-up for all the punishment you can give it, and *work* and *work,* and *work!*

And you have a chance to buy at a price that gives you all the benefit of the economies the Koehring Company effect by big, standardized production! If you had half an idea of what this mixer means in the way of actual value, you would send back the coupon for full detail by next mail!



Dandie Light Mixer

107-S. Two or four cylinder gasoline engine. Power charging skip, or low charging hopper and platform. Rubber tired steel disc wheels or steel rimmed wheels. Complies with A. G. C. Standards.

Send Back this Coupon!

KOEHRING COMPANY
Dept. 4, Milwaukee, Wis.

Please send me by return mail complete information on Koehring Dandie Light Mixer. Also price with equipment as follows:

_____

_____

Name _____

Address _____

KOEHRING COMPANY MILWAUKEE WISCONSIN

PAVERS, MIXERS—GASOLINE CRANES, DRAGLINES AND SHOVELS

Sales Offices and Service Warehouses in all principal cities

Foreign Dept., Room 1370, 50 Church St., New York City

Canada, Koehring Company of Canada, Ltd., 105 Front Street, East, Toronto, Ontario

Mexico, F. S. Lapum, Cinco De Mayo 21, Mexico, D. F.

A-2829-I

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For Ice or Machine

Architects should bear in mind that McCray Refrigerators for residences may be used for ice or machine refrigeration without change. Our commercial models as well are readily adapted for any type of mechanical refrigeration.

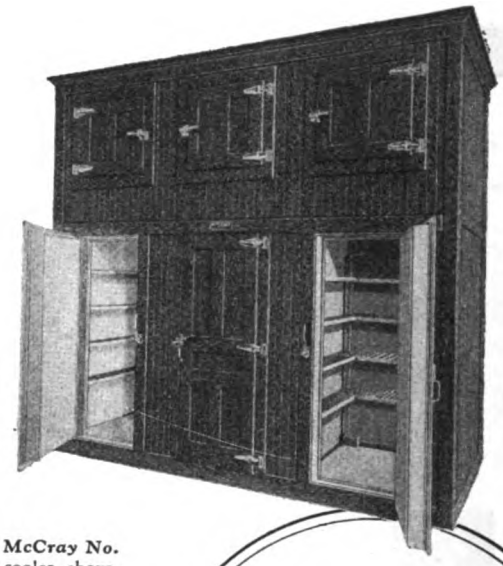
The superior construction, the *in-built* quality of the McCray, is equally valuable whether ice or machine is the refrigerating agent. In either case the cost of operation is exceptionally low as any McCray user will tell you.

McCray refrigerators are built to serve satisfactorily and to endure. The materials that go into every part of the McCray have been proved best for the particular purpose. And the craftsmanship in the interior is just as skilled and painstaking as the fine cabinet making which goes into the exterior case.

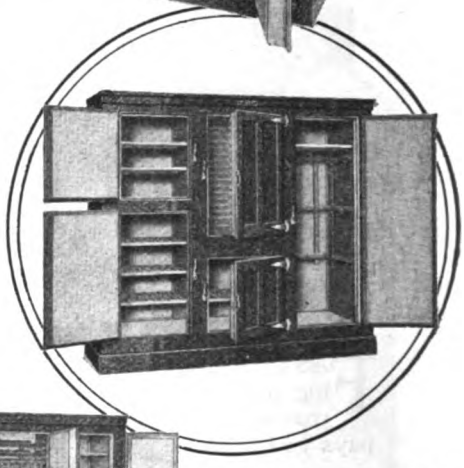
Besides regular stock models for all usual needs, McCray builds to order when desired. Refrigerators, display case refrigerators and coolers for all purposes: for homes, stores, markets, hotels, institutions and florist shops.

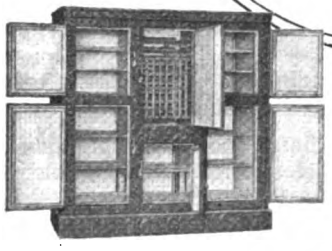
Get the new McCray catalogs for your files. We'll be glad to supply information concerning particular refrigerator needs which may interest you. Write fully, without obligation.

McCRAY REFRIGERATOR CO.
2564 Lake Street Kendallville, Ind.
Salesrooms in All Principal Cities
See Telephone Directory

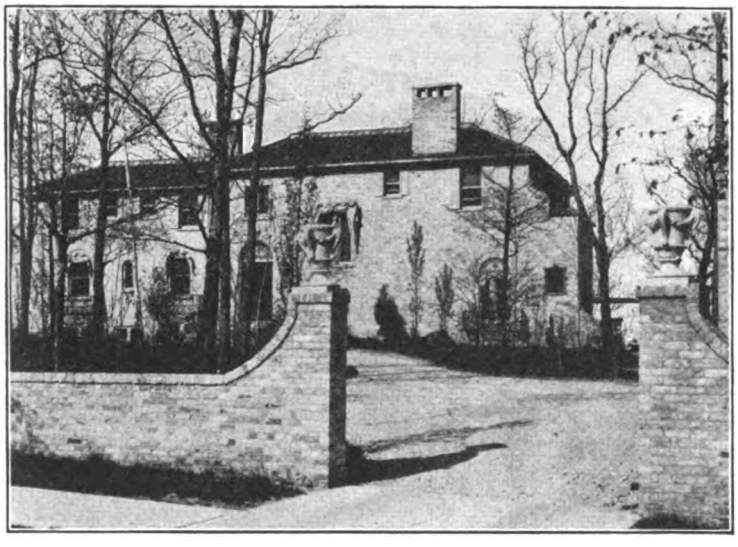


The McCray No. 3175 cooler, above, is especially adapted to the needs of large institutions, having ample storage capacity for meats and all perishable foods. Note that the three storage compartments are in effect separate coolers, since the partitions are regularly insulated walls.



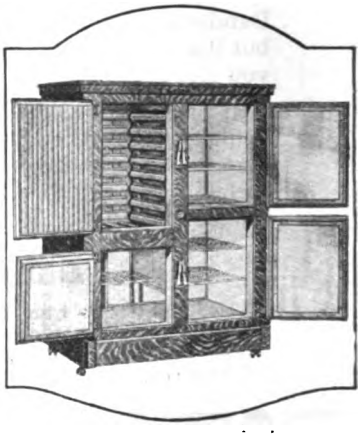


The McCray No. 1135 refrigerator is one of the most popular for hotels, restaurants, hospitals and institutions, providing generous storage space and keeping all perishables pure, fresh and wholesome.



Residence of O. W. Robertson, Milwaukee, Wis., Alexander Eschweiler, architect, equipped with a McCray opal glass lined refrigerator.

The McCray No. 420 refrigerator with its glistening opal glass interior lining and its ample storage compartments is particularly adaptable for the large residence. This model is found in many of the largest and finest homes in the country.



The McCray No. 460 refrigerator, also with opal glass lining, is of a size to meet the needs of most families, which makes it probably the most popular of all our residence models. Besides these residence models we build many other sizes and styles to meet all requirements.

LOOK FOR THE McCRAY NAMEPLATE

You'll find it on the refrigerator equipment in the better stores, markets, hotels, hospitals, restaurants, florist shops and in homes. This nameplate gives positive assurance of foods kept pure, fresh and wholesome.

McCRAY
REFRIGERATORS
for all purposes

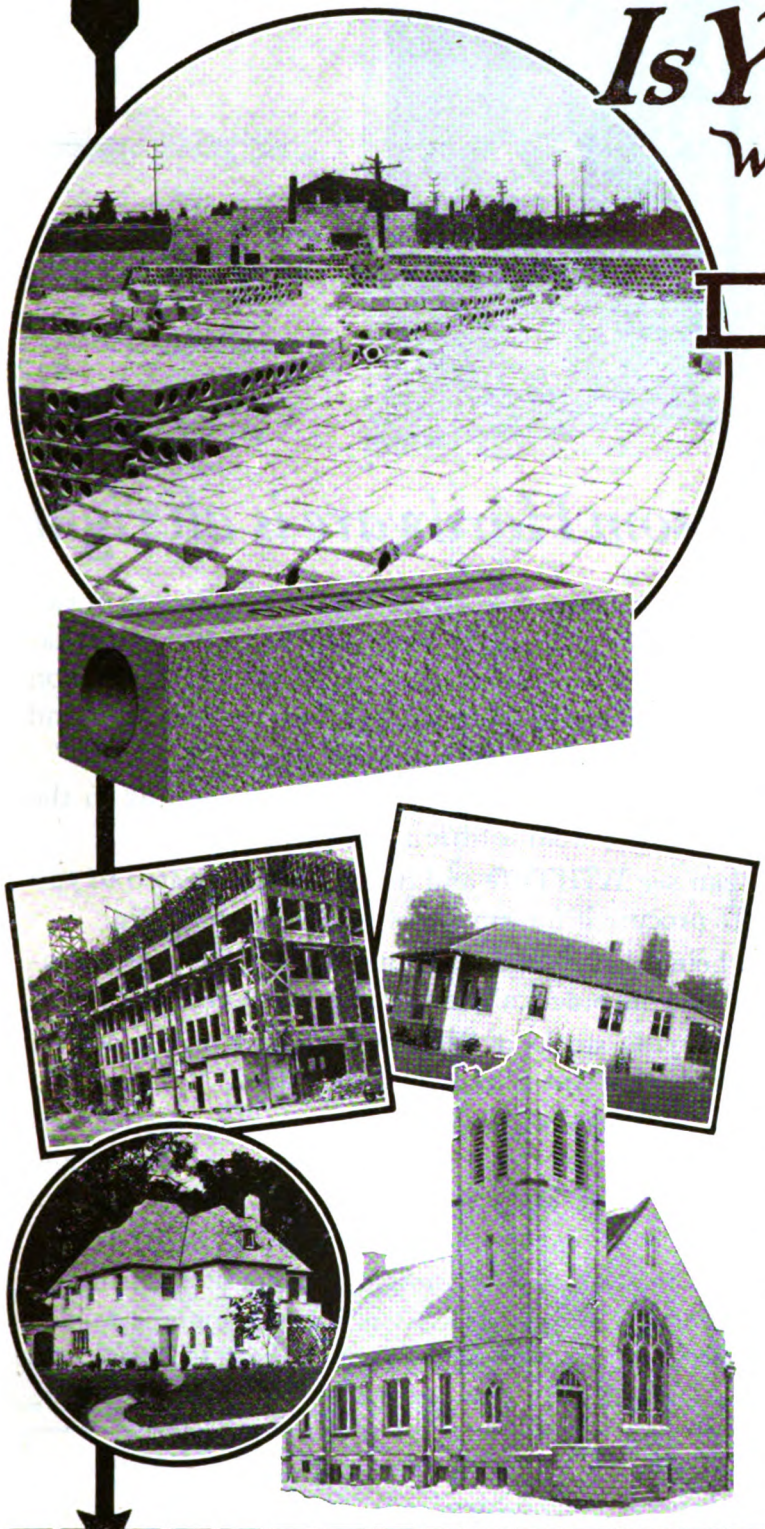
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The Entire Building Field Is YOUR Market

when you become a manufacturer of

DUNTILE

The Perfected All-Purpose Concrete Building Unit



IF you are in position to consider a proposition that will give you an independent manufacturing business of your own, the photographs on this page tell a story of tremendous importance. For they show that DUNTILE today is being chosen as the logical material for EVERY type of building.

Where PERMANENCE and ECONOMY Meet

The truly amazing thing about DUNTILE is that it reduces the cost of finest permanent construction to the level of frame. Think what it may mean to you to be able to offer every builder in your locality a unit that combines light weight with great strength—that affords excellent fire resistance and super-insulation—that is damp proof—that is made in a number of standard sizes for complete construction from foundation to roof—that sets a new standard of building excellence and at the same time brings costs down to rock bottom.

Proof of YOUR Opportunity

More than 250 successful DUNTILE plants throughout the country have completely demonstrated the great possibilities open in every live community. The facts and figures brought out through these splendid successes have been condensed into a concise volume that answers every question as to how YOU too may reap big immediate profits and build a steadily growing business by establishing a Standardized DUNTILE Plant of your own. The coupon below will bring you this valuable book; mail it NOW!

W.E.DUNN MFG.CO.

700 WEST 23RD STREET
HOLLAND, MICHIGAN

W. E. DUNN MFG. CO.
700 West 23rd Street
HOLLAND, MICHIGAN

Show me how a moderate investment will enable me to manufacture DUNTILE at a profit of 30 to 60% and still compete successfully with other materials.

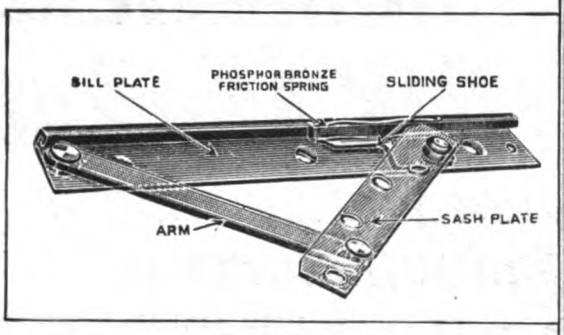
Name .....

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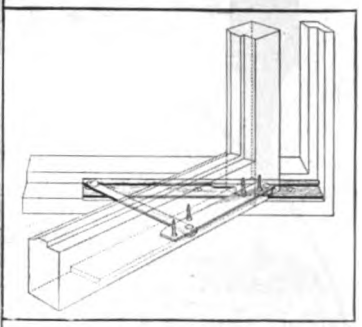
City..... State.....



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WHITCO—

In solid brass,
per set - - $2.25
In rust-proofed steel,
per set - - 1.75

Casement and Transom Hardware is all right

The fact that several hundred thousand sets have been sold in less than two years—without a single, solitary criticism or complaint as to their installation, operation or service — not only establishes a record of satisfaction seldom, if ever, equalled, but should commend it to every architect and every builder in the country in a way that hardly can be denied.

But, there is one thing about WHITCO we are not sure of—one link in the chain of its advantages we want to weld a little more securely:

We want to be sure you can see WHITCO and have it demonstrated to you whenever you may want to procure it for any job you are interested in.

Right now, WHITCO is being distributed by a majority of the representative jobbing concerns, located in practically every important center.

These organizations are carrying stocks of WHITCO, calling on the dealers and opening up new retail outlets just as rapidly as possible.

But we have no means of knowing whether our distributing system has covered your city as yet, and whether it has established the kind of a dealer connection you would like to do business with.

Won't you help us make sure by giving us the information we need?

Please do not look upon this request as just another scheme of securing an inquiry to trade upon. It is not that at all. It is just a simple, straightforward attempt on our part to put ourselves in position best to serve you. We will appreciate your co-operation. The coupon makes this convenient.

CASEMENT WHITCO HARDWARE

VINCENT WHITNEY Co., 636-645 Massachusetts Trust Bldg., Boston.
Our favorite sources of supply for builders' hardware in.....
are .....
.....
.....
Firm Name .....
.....
Street and Number City State

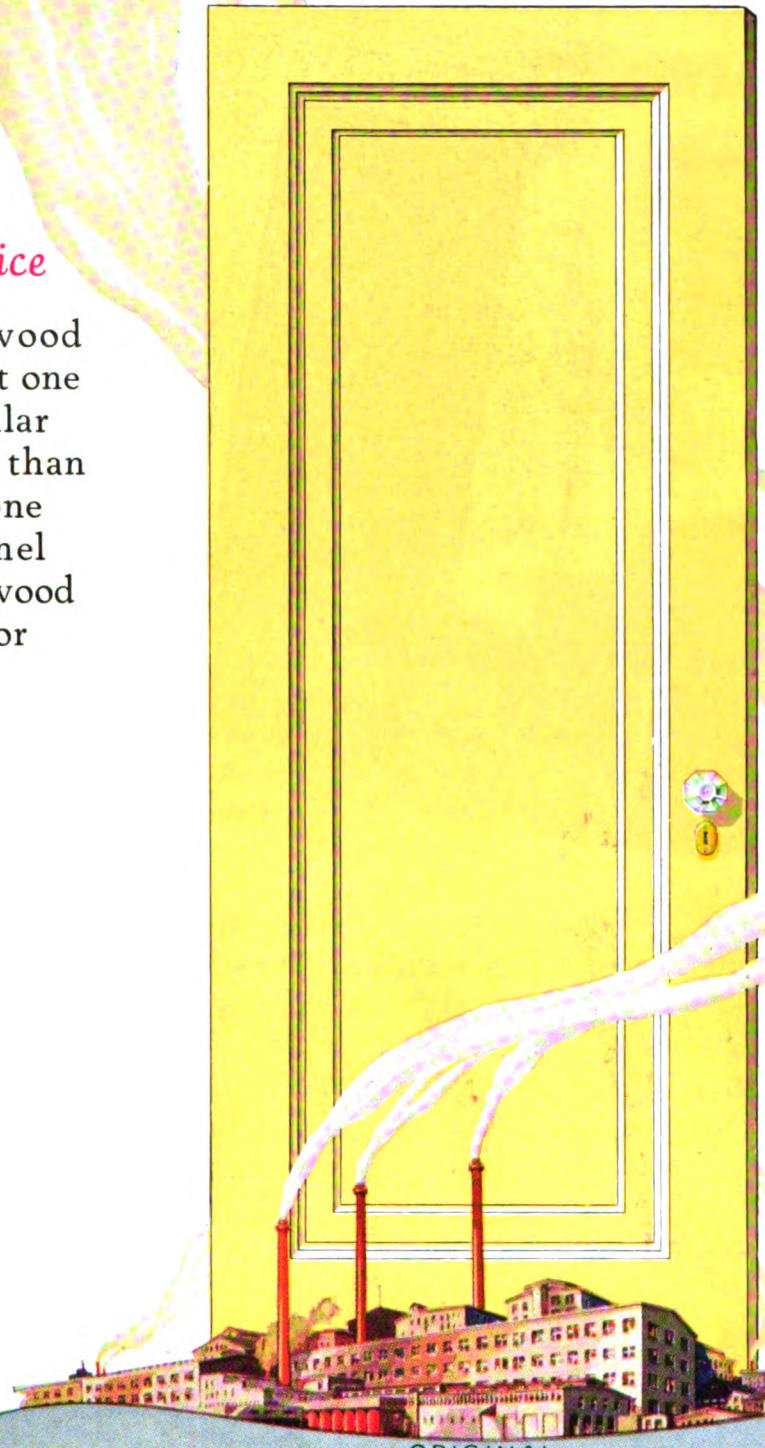
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Price

Softwood about one dollar more than a one panel softwood door

Price

Hardwood no more than a one panel hardwood door



ORIGINAL

The PAINE Miracle Door

TRADE MARK REG. PAT. JULY 10, 1923

Paine Lumber Company Ltd.

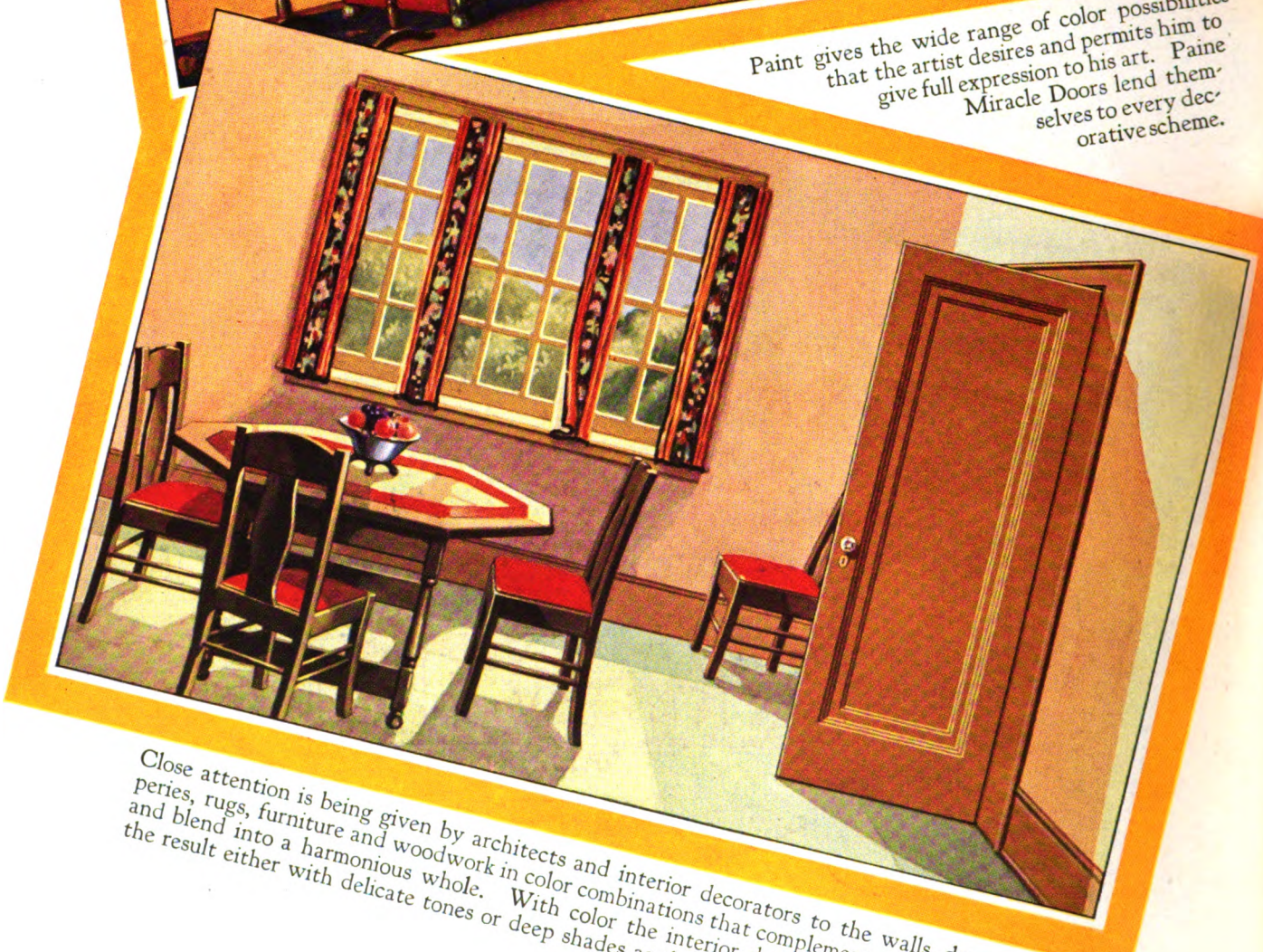
The Miracle Door is a Reinforced Door—A Miracle of Strength and Beauty

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The ORIGINAL PAINE Miracle Door



Paint gives the wide range of color possibilities that the artist desires and permits him to give full expression to his art. Paine Miracle Doors lend themselves to every decorative scheme.

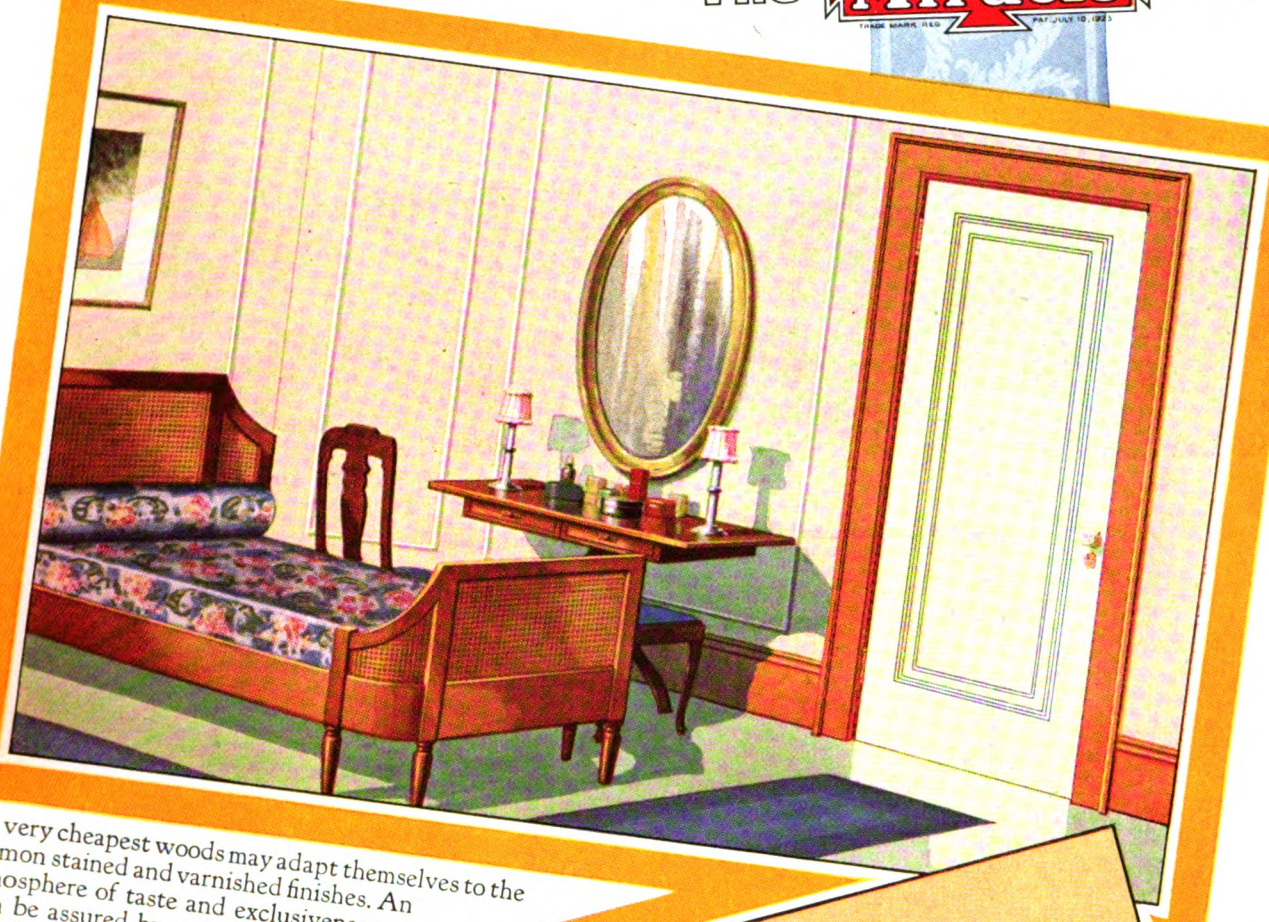


Close attention is being given by architects and interior decorators to the walls, draperies, rugs, furniture and woodwork in color combinations that complement each other and blend into a harmonious whole. With color the interior decorator accomplishes the result either with delicate tones or deep shades as the scheme demands.

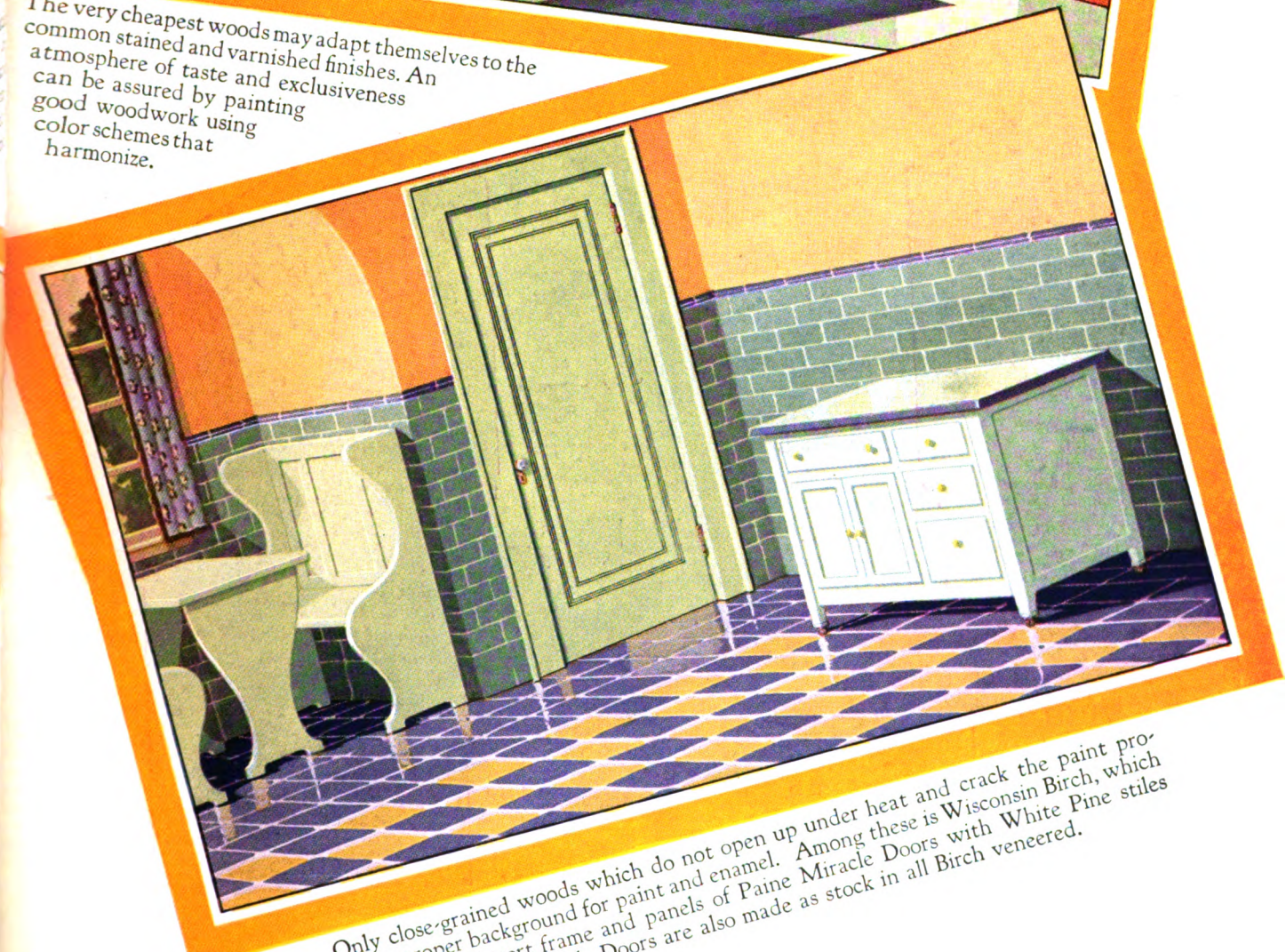
Miracle Doors cost very little more than ordinary doors

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The ORIGINAL PAINE Miracle Door



The very cheapest woods may adapt themselves to the common stained and varnished finishes. An atmosphere of taste and exclusiveness can be assured by painting good woodwork using color schemes that harmonize.



Only close-grained woods which do not open up under heat and crack the paint provide a proper background for paint and enamel. Among these is Wisconsin Birch, which is used in the insert frame and panels of Paine Miracle Doors with White Pine stiles and rails. Paine Miracle Doors are also made as stock in all Birch veneered.

Miracle Doors cost very little more than ordinary doors

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HOME OF THE MIRACLE DOOR
The largest woodworking plant in the world
Established 1853

PAINE MIRACLE DOORS have been endorsed and specified by architects and welcomed by the entire building industry as the popular priced door of exclusive design. They are adapted to all types of buildings, including homes, apartments, hotels, hospitals and office buildings.

The possibilities of staining the Miracle Door and using it in combination with varied wall treatments are unlimited. Desired contrasts can easily be secured with the Miracle Door which adapts itself to any style of trim.

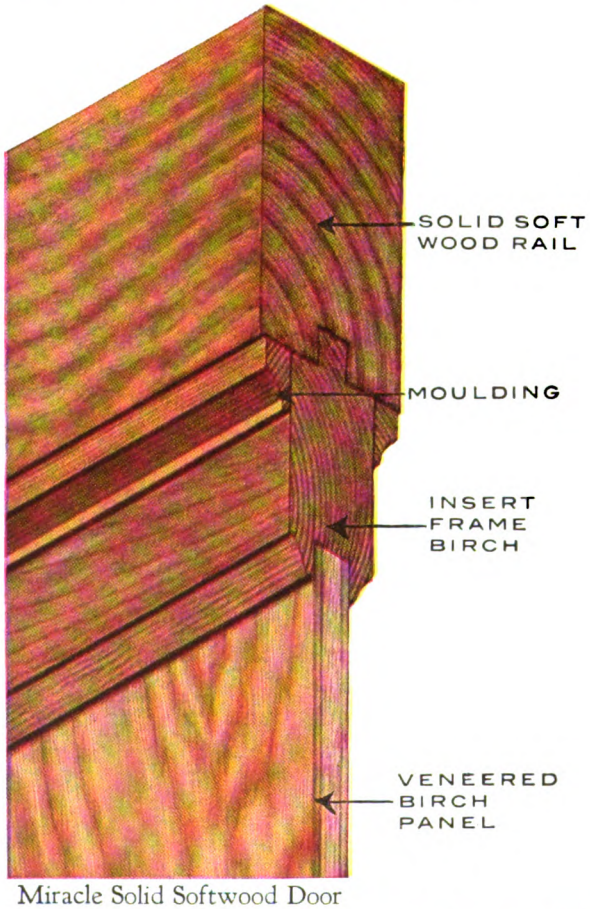
The Miracle Door is made possible by entirely new patented standards of precision in wood manufacture.

The Miracle Door is made in all woods.

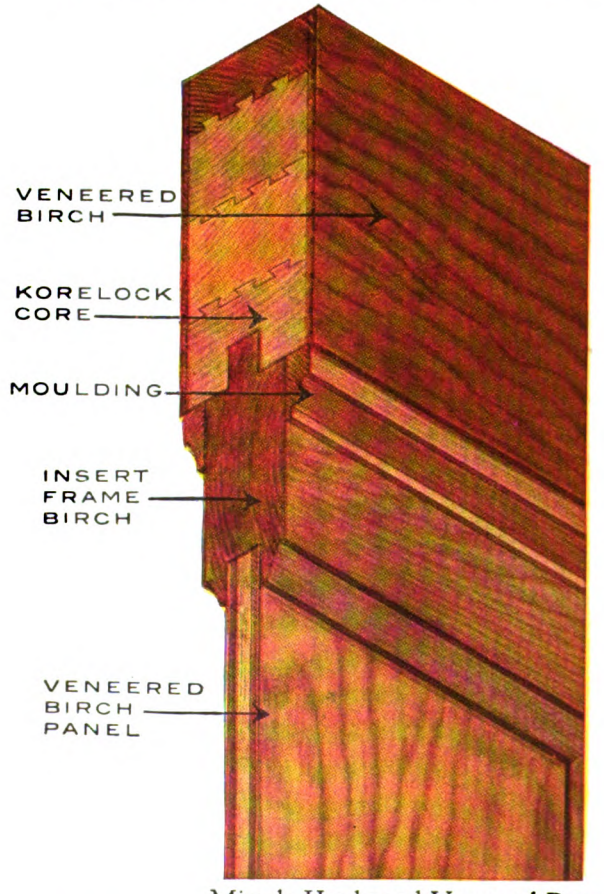
The Miracle Door is produced and guaranteed by an organization that operates from tree to finished product with facilities without a parallel in the woodworking industry.

Wholesale stocks of Miracle Doors are carried in over 90 cities. If your dealer does not carry Miracle Doors write us.

A 56-page catalog showing representative installations of Miracle Doors and giving numerous complete ideas in color for finishing Miracle Doors, together with the floors, walls and woodwork in connection, will be mailed you free upon request.



Miracle Solid Softwood Door



Miracle Hardwood Veneered Door

Demand the Genuine Miracle Door. Refuse Imitations.

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$25.00 BRINGS IT TO YOU

FREE TRIAL

The Days of Hand Sawing for Progressive Contractors are Over

Why pay out of the profits that should jingle in YOUR OWN pocket, wages to unnecessary help—waste time that means money—expend your vitality, energy, strength, in back-breaking hand sawing, which, when equipped with this simple, inexpensive Portable Saw Rig, you eliminate, and accomplish in ONE hour what formerly took you TEN? Facts are facts. Old methods are costing you TOO much. Why continue in the old rut—with the old tool box on your back, when for 25 cents a day you can increase your prestige and income five-fold?

The "JIFFY" SAW

Builder's Complete Portable Gas Engine Saw Rig



The "Jiffy" is the simplest, most economical, most efficient, of any Saw Rig regardless of capacity. Rigid all-steel table, size 24x32 in., and frame; compact, simple, air-cooled power unit; mounted on rubber tired wheels that make it easily moved to the desired place on the job.

Take It Anywhere You Saw

You take it anywhere—up to the second floor or down in the basement. Just step on the lever and it is raised onto its rubber tired wheels and moved to any convenient place with ease and facility; weighs only 225 lbs. This feature alone makes it adaptable to the job at hand.

Cross-Cuts, Rips, Miters

You will find the "Jiffy" a "bear" for work. Comes fitted with an 8-in. all-purpose saw that cross-cuts, rips, miters with equal facility and efficiency. Takes any material up to 1x15 and 2x12 in., which is ample capacity for most any size job. With this saw you can work up 8,000 to 10,000 feet of lumber a day or 500 cuts an hour on rafters, joists and similar work.

Its distinguishing feature is the saw, which operates on the swing method—moving THROUGH the lumber instead of the lumber through the saw. Quicker, easier; no jamming of the blade. Starts easily. Runs smoothly; 10 hours on 1 gallon of gasoline.

For Big or Little Jobs

No job is too big or too small for the "Jiffy." You will use it all day for cutting rafters, joists, sheeting, siding, flooring, or whatnot. You will find much work it can do faster and better.

Powerful Motor

Gasoline Motor — ¾ horse power, single cylinder, 4 cycle.
Ignition — Built-in fly wheel magneto. Moisture proof.
Carburetor — Set jet type. Extremely simple.
Cooling — Air current.
Starting — Lever style. "Step on it" and it's off.
Fuel Capacity—1 gallon.

The "Jiffy" Saw Will Work For You For 25¢ a Day

Doesn't it fairly make your arm ache and your poor back wince, when the day is done, to look at that little pile of saw dust under your trestles and what it represents—10 hours of back-breaking labor. Just think! For only 25 cents a day—the price of a gallon of gasoline and a little oil—you can save 85% of the hand-saw labor on an ordinary job, save 12% of the total cost to the owner, and do TEN TIMES as much work, and still be unfatigued when the day is spent. And the only accountable reason for continuing hand sawing is the long established practice, nothing more. What you formerly did by "elbow grease" can now be done economically by gasoline. You derive the difference. Think it over.

FREE



Investigate! This Means Much to You

So confident are we that you will find the "Jiffy" indispensable that we offer to send it to you on 10 Days Free Trial. If then you are dissatisfied you may return it and get your initial payment back. You take no risk. Sign and mail the coupon for our free booklet "Sawing With Elbow Grease or Gasoline." It gives facts and figures that will open your eyes to the savings and increased profit that comes from modern equipment. This is your opportunity to take a big step forward in your profession—to advance yourself in your own estimation and in the opinion of the building world. Don't pass it up. It means much to you.

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Without obligation, send me your FREE book, "Sawing With Elbow Grease or Gasoline." Also full particulars about the "Jiffy" Portable Saw Rig and details of your easy payment plan.

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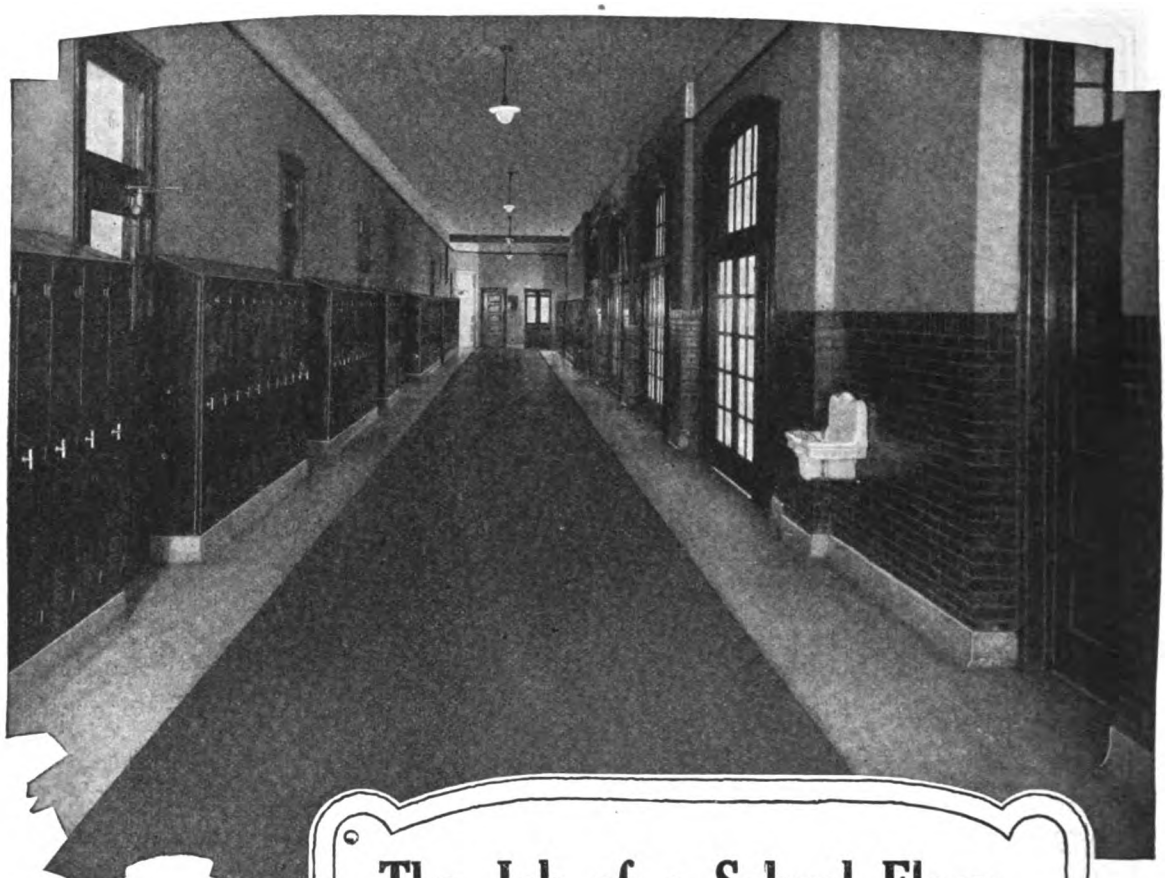
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Armstrong's Linoleum

for Every Floor in the House



Look for the CIRCLE A trade-mark on the burlap back

Ⓐ



Davenport, Iowa, Public School, 2700 square feet, Armstrong's quarter-inch Brown Battleship Linoleum installed by Harned & Von Maur Inc., Davenport, Iowa.

The way to lay a permanent linoleum floor is to cement the material over a lining of heavy deadening felt. For laying instructions, use your letterhead to ask for a copy of "Business Floors." This 48-page booklet also illustrates the use of Armstrong's Linoleum for stores, offices, hospitals, churches and public buildings and tells how to care for linoleum in the most practical way.

The Job of a School Floor

YOU require three things of a good school floor, it must be quiet, durable and easy to keep clean.

The scuffing of children's feet wears hard on the ordinary floor, and is, moreover, very disturbing to study and recitations.

To solve the school floor problem, school boards and architects and builders use Armstrong's Linoleum. The tough cork particles, mixed with resilient oxidized linseed oil, deaden footsteps and other annoying sounds, and stand up sturdily under the grinding wear.

Linoleum is readily cemented to a fireproof concrete base and makes a permanent floor with a minimum fire hazard. And when properly installed, its smooth, seamless surface is practically impervious to dirt and is no trouble at all for the janitors to clean.

Armstrong's Battleship Linoleum comes in four thicknesses, and three colors—brown, green and dark gray. It makes a splendid floor for corridors and hallways, as well as for auditoriums, class rooms, gymnasiums, libraries and offices. Ask for samples and the names of reliable firms that can give you estimates of what linoleum floors cost.

Armstrong Cork Co., *Linoleum Division,* **Lancaster, Pa.**

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Drawing up specifications
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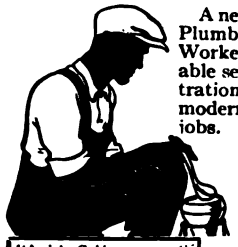
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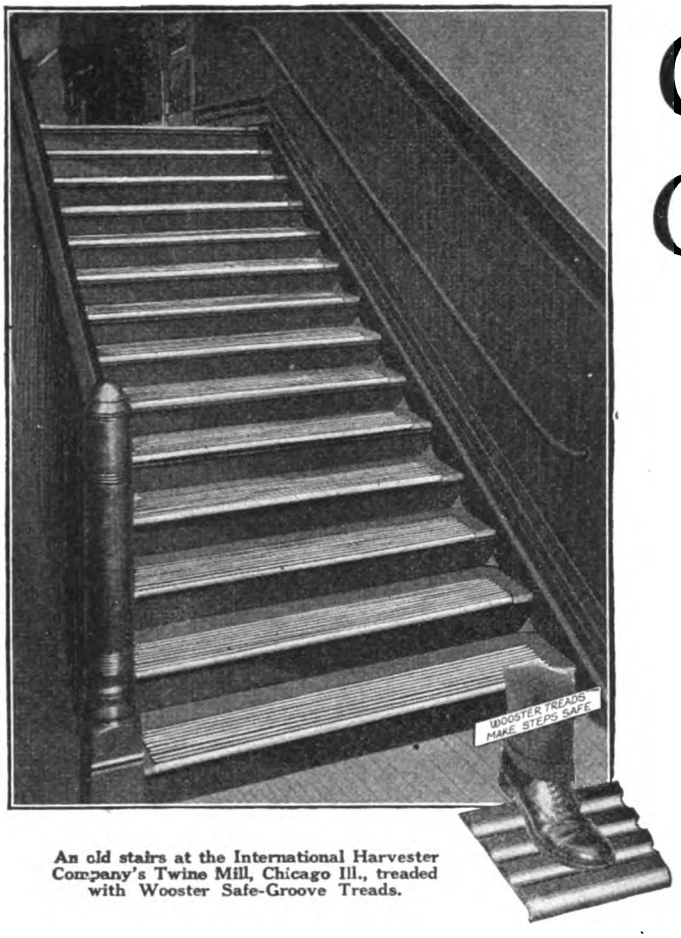
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Can Be Laid On Any Stairs

BEAUTIFUL stairways of marble, granite and terrazzo become worn and grooved almost as soon as stairs of cheaper materials. They cost more, and their beauty is worth it. It is false economy, however, to allow such stairs to wear away for lack of proper protection. With Wooster Safe-Groove Treads installed, they never need repair—you are saved the almost prohibitive cost of rebuilding them.



For use on stairs of marble, terrazzo, granite, cement, slate, iron, wood.

WOOSTER NOSINGS

Wooster Nosings are specially made for linoleum and all stair materials. Made in yellow and white brass and cut to desired lengths. Holes bored in flanges permit of fastening with concealed screws.

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Wooster Safe-Groove Treads of white and yellow brass give long life to the marble, terrazzo and granite stairways they protect. The soft silvery or gold lustre of their polished grooves harmonizes with the stair material. They are non-rusting—require no polishing or special attention. They are safe, economical. Leading hotels, schools, hospitals and public institutions protect their stairways with Wooster Safe-Groove Treads.

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Announcing the Cinder Concrete Corporation

Licensing Agent Under Straub and Bo Patents

122 West 42nd Street, New York

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The Cinder Concrete Corporation has the authority to grant licenses under both the Straub Patent and the Bo Patent. It will promote new plants throughout the United States and Canada for the manufacture of block, brick and tile, according to these well-known processes.

The main office is located at 122 West 42nd Street, New York City, and branch offices are maintained at 416 Union Trust Building, Rochester, N. Y., and at 908 Park Building, Pittsburgh, Pa.

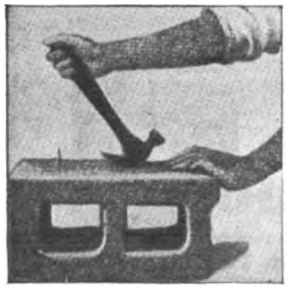
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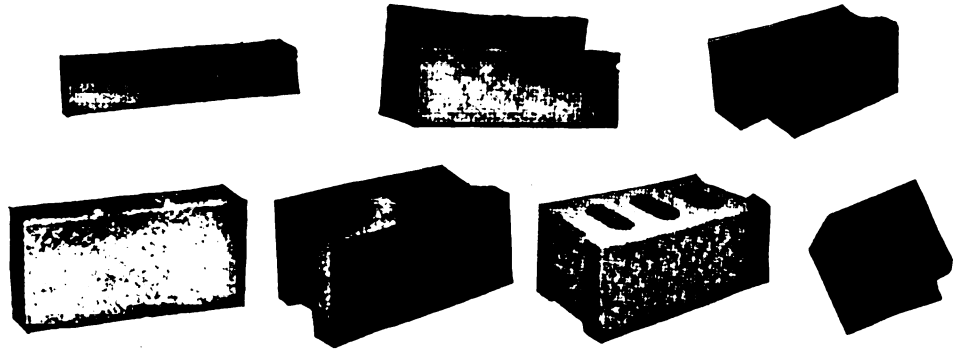
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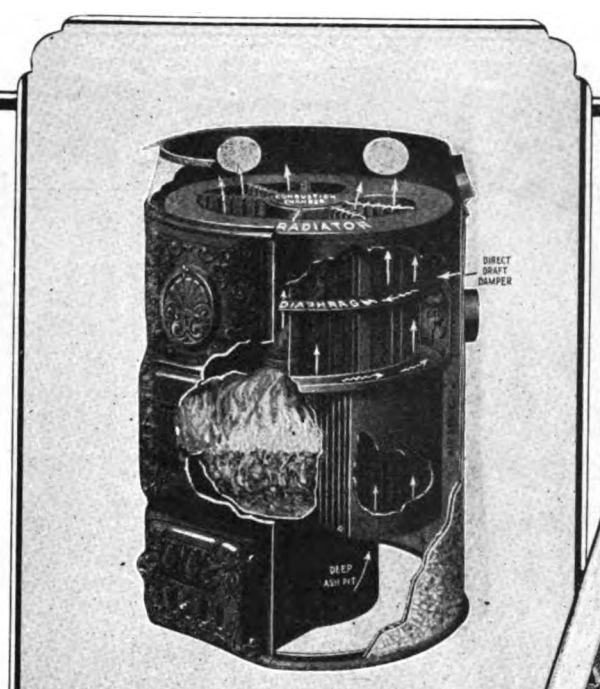
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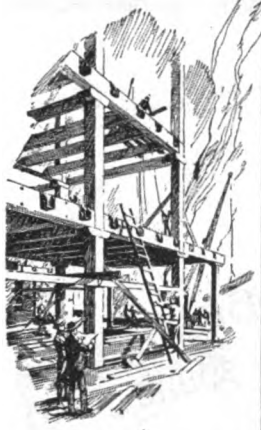
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Long-Bell Douglas Fir

Douglas Fir users find Long-Bell trade-marked Douglas Fir lumber and timbers regularly dependable. A half century of lumber experience, thorough care in manufacture and definite high standards of production have given this product the reputation of *uniform dependability*. The trade-mark is on the end of the piece.



Plans for Small Homes

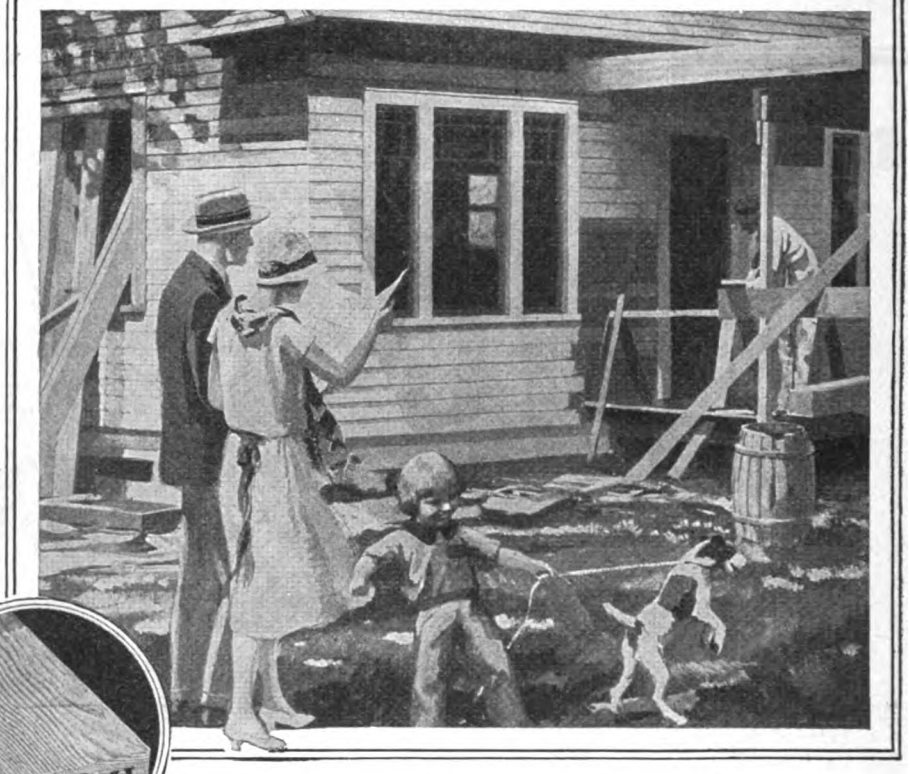
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A desirable oak floor is the combination of good workmanship and *good flooring*. Contractors everywhere who have used Long-Bell trade-marked oak flooring have found it not only well manufactured and beautiful in grain—*but economical, as well, to lay and finish*. Builders recommend it because of this economy, beauty, perfection of manufacture and durability.

DOORS All-California-White Pine

Long-Bell doors, made throughout of California White Pine, cost less to fit, mortise and hang than doors made of other woods. They take any finish perfectly. Sold through retail lumber dealers.



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Ask your retail lumberman

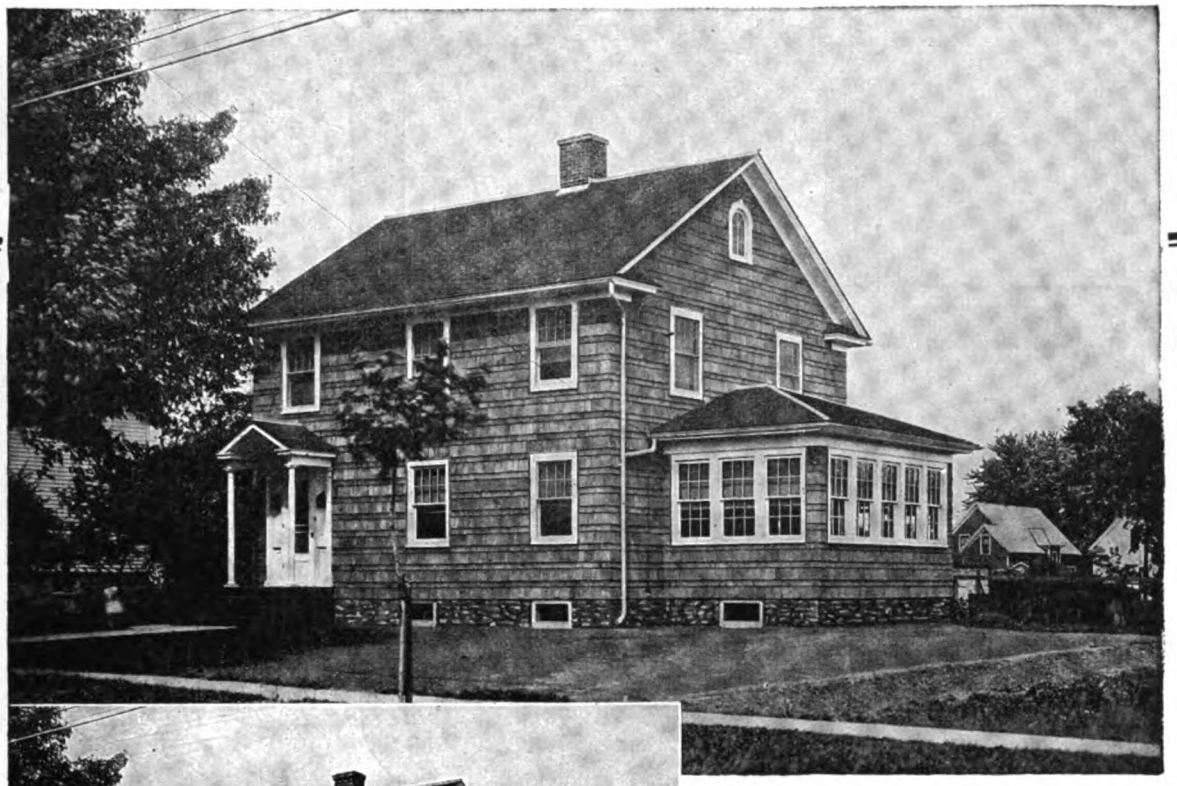
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For Roofs and Sidewalls

What an amazing difference they can make! A few simple alterations, plus WEATHERBEST Stained Shingles over the old clapboards and the unattractive old house at the left becomes the inviting up-to-date home shown above.

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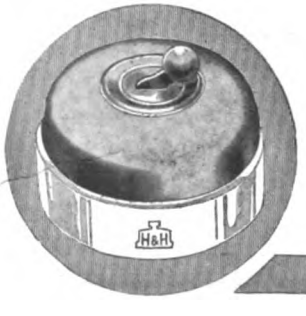
Before Tumbler switches, before Push-Button switches, the H & H "Snap" carried the current to pioneer wiring jobs.

Many a veteran leader in the trade, started with an installation of these switches. And his work of that day still speaks for his work of this!

FOR surface wiring, the H&H "Snap" is the standby it always was. For cottages, bungalows, garages, out-buildings—from playground pavilions to factory buildings—*it lasts.*

On "old work" or new, always in style; positive in action; permanent in supporting your work.

Made in all sizes for lighting circuits, and for modern control of heating and power units in industrial use.

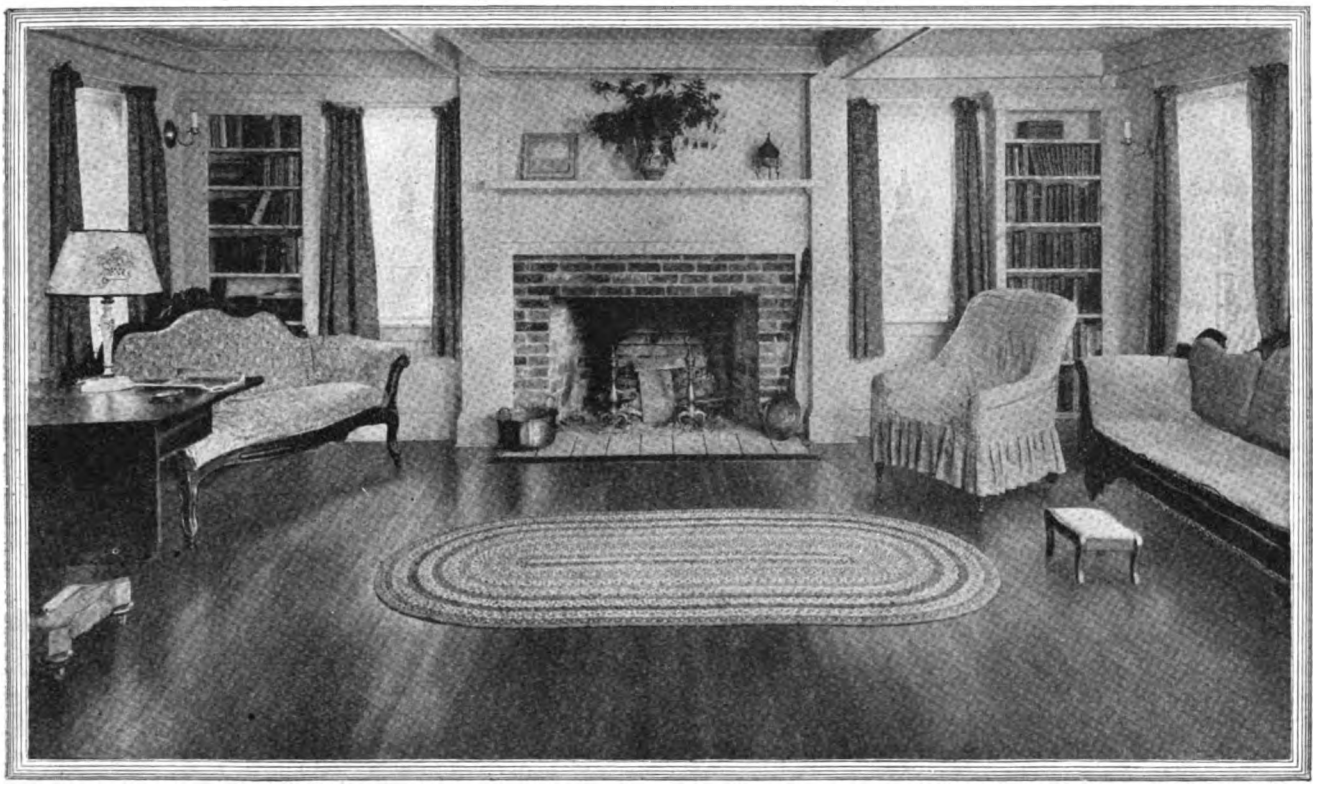


Tumbler Switches of surface type are a later development for all-round use like the Snap Switch. In surface wiring, or concealed—*any* place you meet a *switch* problem—turn to H&H *Catalogue "R."*



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Every home in your trading area that has old fashioned worn floors is a live prospect for the sale of Oak Flooring. Nothing spoils the appearance of a room, and makes the whole house seem run-down, more than a worn, uneven floor. Nothing is harder to keep clean. On the other hand, no other single improvement will make the house appear more modern, add to the attractiveness of furniture, and lessen housework, than a bright permanent Oak Floor.

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No woodwork is disturbed except the quarter-round at the baseboard. The work may be done one room at a time, with less disturbance to the household. Figure the cost for your customers by the room; they will be surprised at the reasonableness of the figure. Call their attention to the advantages of beauty and sanitation.

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Nature provides in Oak a beautiful floor, bright and lustrous, which may be finished in various colorings, to harmonize with walls or furnishings.

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Dirt cannot collect, and a little regular attention keeps an Oak Floor in perfect condition. The housewife is relieved of back-breaking and unsatisfactory sweeping.

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The attic is an ideal place for the children to play, or it provides extra accommodation for guests, when it is made attractive and usable by Oak Flooring.

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When the time comes to rent or sell, the owner will get more for an Oak Floored home. And as a permanent floor that never needs replacement, Oak is an investment, not an expense.

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We will supply you with free literature to show prospects, containing illustrations of the new color finishes, and suggestions as to how rooms may be floored and finished to suit individual taste. How to figure accurately and quickly the amount of flooring required on a job is contained in the booklet, "How and Where to Use Oak Floors." Also grading rules; standard measurements, thicknesses, and widths; handling, laying, and nailing Oak Flooring. Put your flooring problems up to our experts, who will assist you without obligation. Mail this coupon for valuable helps.



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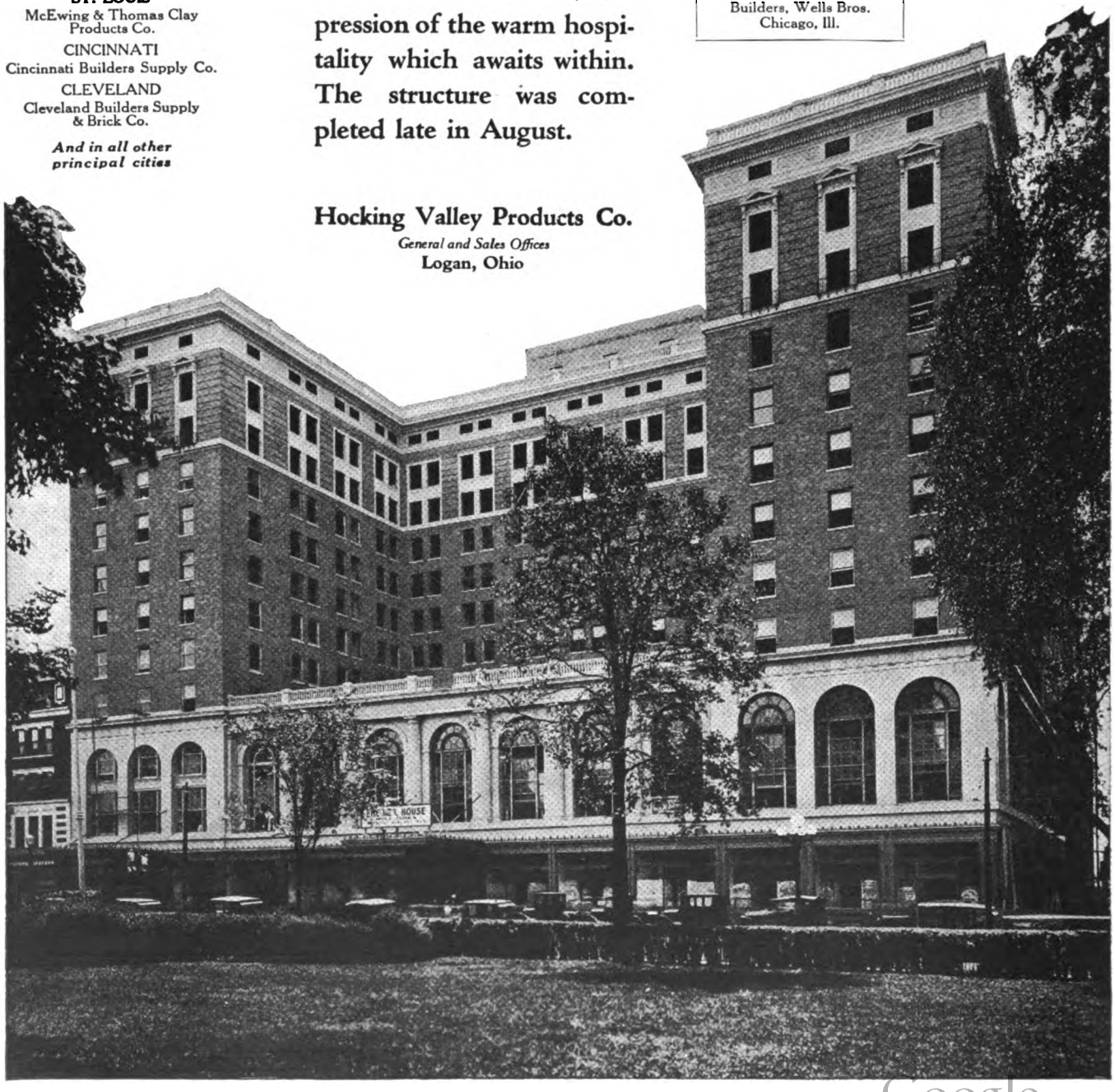
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A TRUE example of the finest in the builder's art, the new home of The Neil House, Columbus, Ohio, Central Ohio's oldest and most famous hotel, is clothed in Greendales of a warm buff shade admirably fitted to the outward expression of the warm hospitality which awaits within. The structure was completed late in August.

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BUILD HOMES THAT WIN PRAISE AND PROFIT!

How can builders make sure in advance that owners will be satisfied? How can builders help owners decide to build at once, without delay? How can the builder make each home so attractive that more customers will want his services? Here are almost 400 answers — and a blue print plan service that saves money for builders and owners.

Every builder knows that some people like one type of house, and some people want something entirely different. Some people like Colonial homes —others like the individuality of Spanish architecture. Some like frame or stucco—others, brick. Some like bungalows, others want two stories. Some are conservative—others want to "be different." And the builder who can satisfy them all —with homes which are truly good looking and true to good taste—can build not only houses, but a profitable reputation for himself.

You can satisfy every type of customer with the help which suggestions in Keith's Magazine give you. It is like talking over matters every month with an architect who has a national reputation for home-planning. For nearly 25 years Mr. Keith, the publisher, also the President of Keith Corporation, Architects, has given his time to this work—he gives you the benefit of his experience through the pages of this magazine.

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You will get 32 plans of small homes in each of the January, February, March and April issues—the months when spring building is at its height. In the 12 numbers you get almost 200 plans, with valuable discussions of new construction methods, application of building materials, new ideas in interior finish and exterior decoration—ideas worth hundreds of times the subscription cost.

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For a limited time only, we make you the following remarkable offer: To those subscribing for one year to Keith's Magazine we offer for the cost of mailing only, to send a copy of Keith's big De Luxe plan book—200 Beautiful Homes—a complete home builder's book handsomely illustrated with plans of 200 homes in the latest architecture. Gives you examples of all types of construction for the bungalow, cottage and two-story home.



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KEITH'S
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SOLID CONCRETE WALL
CONTINUOUS SEALED AIR SPACE
SOLID CONCRETE WALL



Residence of F. L. Green, Downing Street, Denver, Colo.

Walls built by the Van Guilder System.

ONE OF 30,000 HOMES BUILT BY THE VAN GUILDER SYSTEM

The Van Guilder System is a method of erecting a double monolithic concrete wall separated by a continuous air space. (Note border.)

The air space in the wall prevents dampness and excludes heat and cold.

No forms, no furring and lathing! Experience unnecessary.



Here's how Van Guilder machines work:

Place a machine anywhere on a footing. Fill machine with concrete, tamping as you fill. Then, lift releasing lever and move instantly.

The Van Guilder System is the simplest form of construction in use today. It has been tested by time, tested by fire, and now tested by an earthquake.

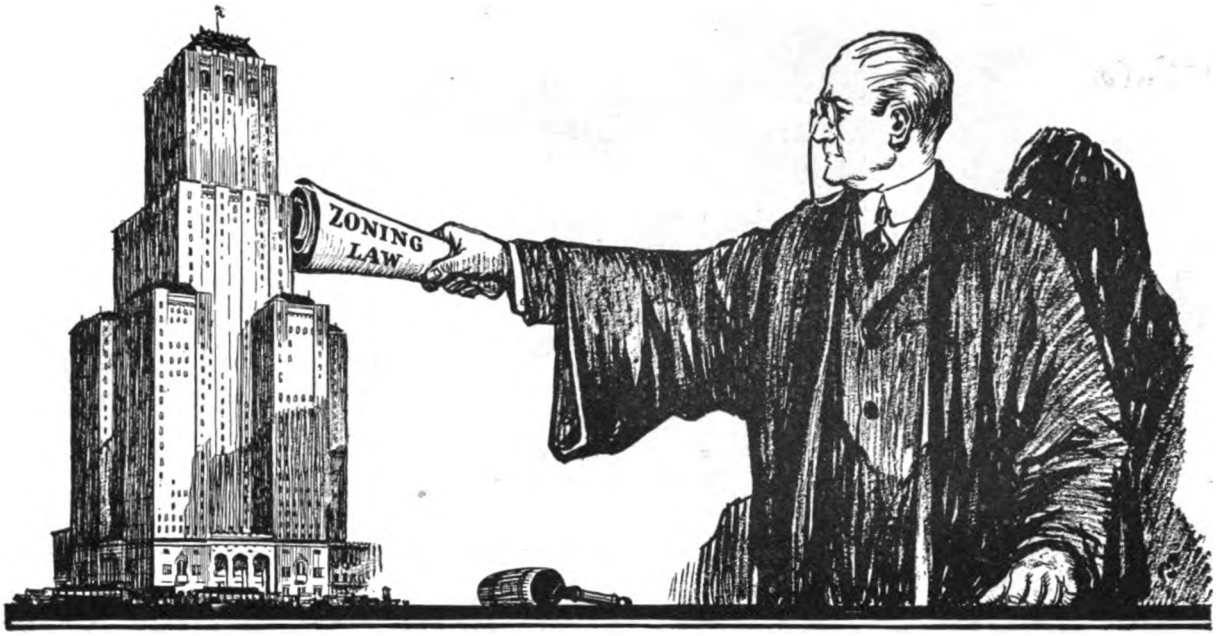
It is to your advantage to learn more about the Van Guilder System. Write today for booklet and prices, etc.

Van Guilder System Concrete Building, Inc.

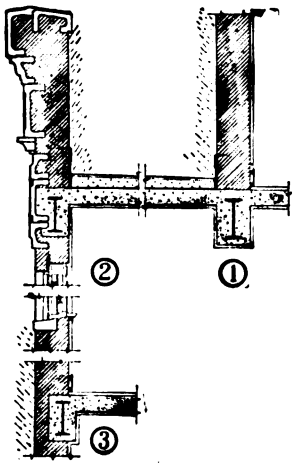
15 East Fortieth Street, New York City

SOLID CONCRETE WALL
CONTINUOUS SEALED AIR SPACE
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A new waterproofing problem solved



The passage of zoning laws necessitating set-backs in the erection of tall buildings, automatically created new waterproofing and dampproofing problems. These set-backs are potential sources of interior damage unless adequately protected against the entrance of moisture.

Section I of the accompanying drawing illustrates a wall set back from the building line. Note the unprotected fireproofed beam, the abutting concrete floor, and roof slabs of cinder concrete which are too porous to prevent the entrance of water into the building.

The weak point is in the mortar, for ordinary mortar contains countless pores which permit the absorption of water and moisture. The remedy is to lay up the brick in cement mortar not subject to capillary attraction.

These desirable properties can be readily and economically obtained through the use of "R.I.W." Toxement Mortar Paste.*



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For the integral waterproofing of cement mortar and stucco.

For cement mortar troweled on the outside of brick or rubble foundations.

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Easy to Keep Clean



No Cracks to Catch Dirt



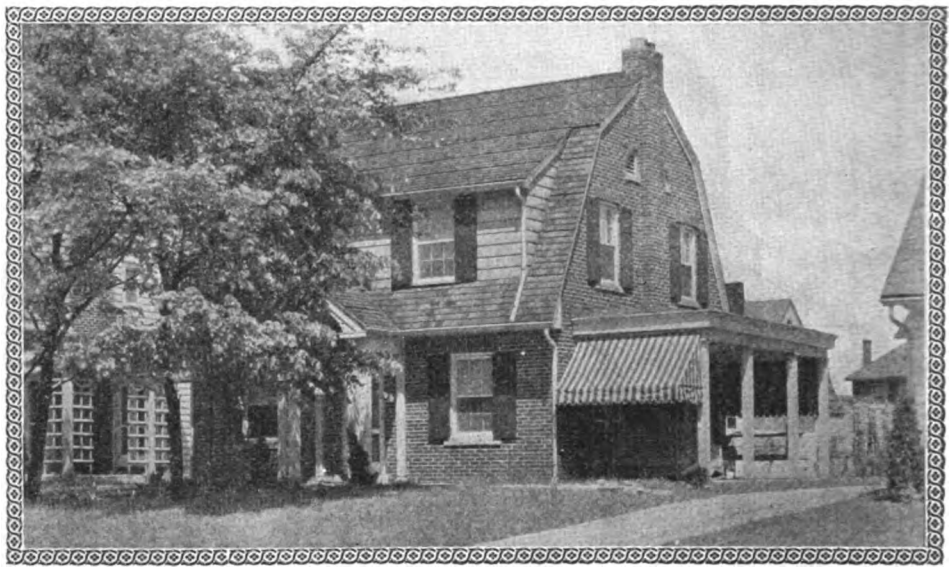
Fits Snugly, Neither too Tight Nor Loose



A Bruce Floor is Sanitary



Bruce Oak Flooring is Readily Available



42 Homes Selling for More Money

— because they have Bruce Oak Flooring

"BRUCE" is a nationally advertised flooring. People have been told in the pages of their favorite magazines what to look for in the way of uniform quality and appearance, and when the prospect is told that "the floors are Bruce," one important part of the selling task is done.

Walter W. Morrison, Realtor of Columbus, Ohio, who has equipped more than 42 houses constructed this year with Bruce flooring, is one of many realtors in the country who recognizes and profits by the added value afforded by a standard recognized flooring.

Variety within the Cost Estimate

Regardless of the character of homes built, there is Bruce oak flooring that will come within the cost estimated. By selecting different grades for different rooms, using both quartered and plain sawn, the entire house may be floored in an attractive and distinctive way, at moderate cost. Yet the quality will be the highest, regardless of grade or price, as there is only one standard.

The wise builder uses

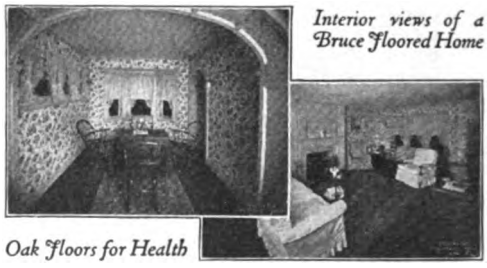
Bruce Oak Flooring

Because: It is made from most carefully seasoned lumber, kiln dried by most exacting processes. Machine work is accurate, providing tight, snug-fitting flooring, which is sanitary, with no cracks to catch dirt.

Stocks are readily available, anywhere in the United States.

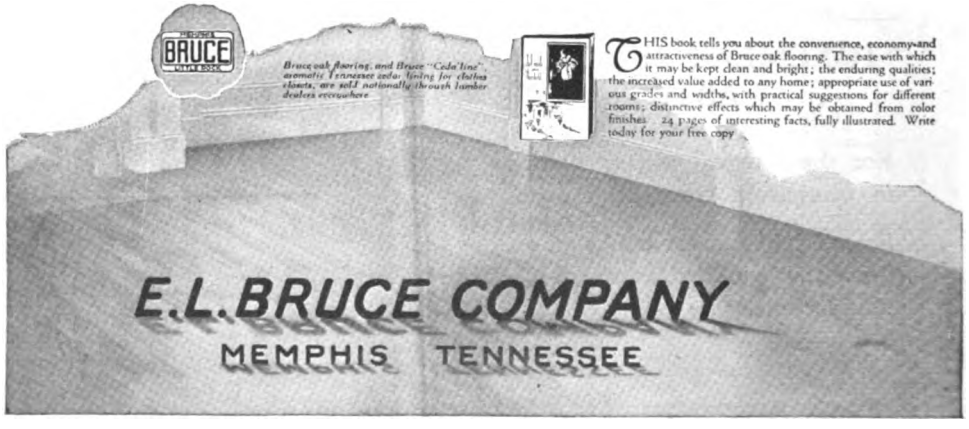
Manufacture is uniform, and a minimum of scraping and sanding will be required to obtain a well finished floor.

Let our technical department help you select grades and finishes suitable for different rooms.



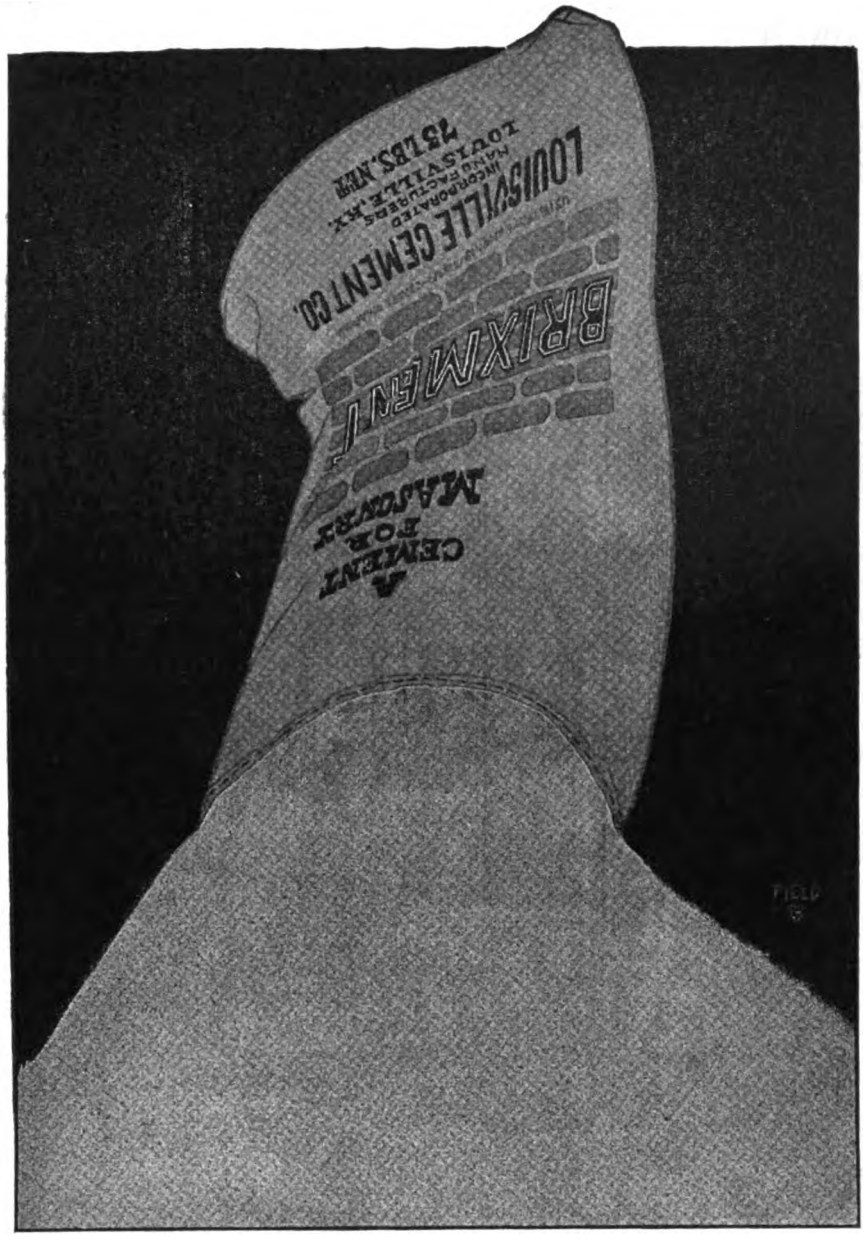
Interior views of a Bruce Floored Home

Oak Floors for Health



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BRIXMENT is made according to a definite, invariable formula that insures a wall of maximum and uniform strength at greater economy of time, labor and material. Will not fade mortar colors. Sold through dealers. If there is no BRIXMENT dealer in your town, write us. *Louisville Cement Company, Incorporated, Louisville, Kentucky.*

for Better Masonry

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You can build more economically and satisfactorily with Truscon Copper Steel Casements and Basement Windows. They are manufactured in sizes to meet all your needs, one size of the Basement type being specially designed for use with concrete block foundation walls. Both your time and labor are saved with these Truscon Windows because they are completely factory-built and do not have to be fitted on the job. Minimum labor for setting is required.

The low price of these Truscon Casement and Basement Windows coupled with their advantages of daylight and 100% ventilation have created a demand. You satisfy your customer at the same time that you build a reputation for durable construction for yourself. The actual building is made more profitable for you, too.

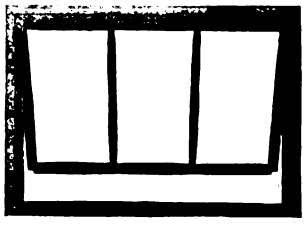
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Building Age
National Builder
With Which is Incorporated
The Permanent Builder and The Builders' Journal
New York, September, 1925

THE contract for the world's largest office office building has recently been let. The structure will be 37 stories high, seven below street level and thirty above. It is to occupy the entire block bounded by Lexington Avenue, Depew Place, Forty-third and Forty-fourth Streets, New York. This remarkable structure is estimated to cost $19,000,000. The structure will have a rentable space of 1,350,000 square feet. It is not so very long ago that a building seven stories in height was considered a real skyscraper and now with this building we begin the "earth-borer" stage of modern building construction.

THE Santa Barbara earthquake gives further indications that different building materials withstood the test in a satisfactory manner. Faulty methods of construction were to blame in most cases of destruction.

No material can stand abuse and an earthquake is abuse with a vengeance. It is no discredit to any material that it does not stand up 100% in any such disaster, but to pick on isolated cases of failure, or isolated cases of success that withstood the shock, are not fair ways of weighing the real value of building materials.

EVERY week or so we run across items in the daily papers by some self-styled seer who has an unfailing vision in the future of the building industry. He usually sees that we are over built and that building is on the down grade. It must hurt these wise prophets quite considerable to face real facts. Here are a few:

The amount of contracts awarded in July was the largest volume of building construction ever reported for that month on record!

This is 53% over July of last year! There is usually a considerably seasonal decline in July over that of June, but this year the figure for July is only 2% less than that of June. This, mind you, is for contracts awarded.

WE have urged our readers from time to time to discuss with their fellow builders the problems of the industry in their own localities. Such "get-together" meetings are good for all, for everyone must consider what associations can do, the individual cannot do no matter how he tries and spends money. An association urging something has more weight than an individual, for it represents unity.

If there is no builders' club, builders' exchange, etc., in your town, try to form one. You will then have a chance to meet your fellow builders and get acquainted with their problems, which you will find similar to yours, and if you will talk them over, you will find the solution for both. "Get together!"

ALMOST interesting report comes to us from the Universal Portland Cement Company. All of their mills in various locations were operated for an entire month without a single employee losing time on account of an accident. This certainly is an enviable record and we wish that such a record could be equalled on every building.

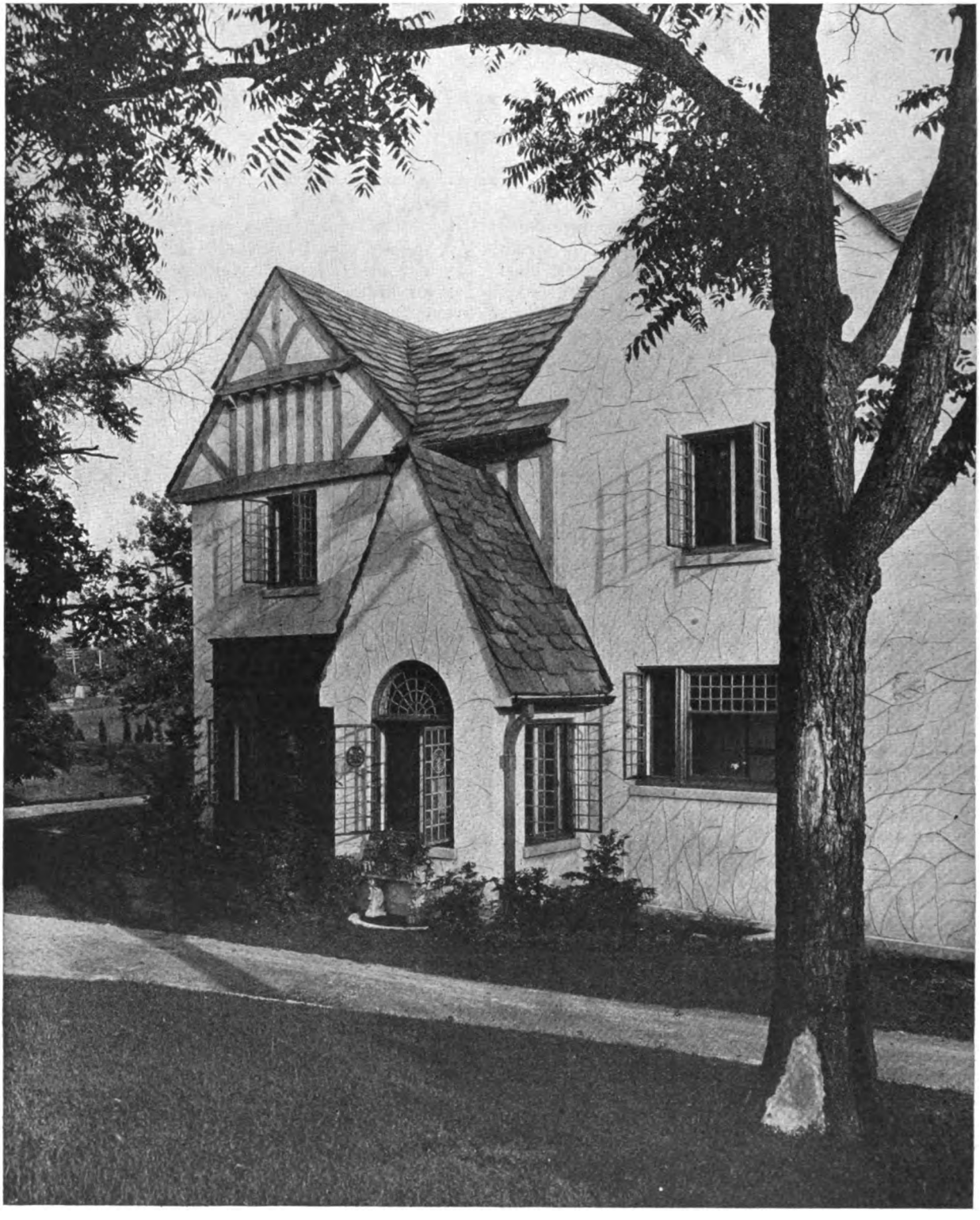
One Hundred Per Cent Safety should be the aim of every building contractor. Instill the Safety idea among the men. The foremen are the men to do it. The reckless fellow should be quietly let out of the job because he endangers others as well as himself. Do not harp on Safety First as that is liable to get everyone nervous and fidgety.

Show the men the safe way of doing things, and as for those who will not learn to be careful, just let them go. Care to prevent accidents means better work and better profits for the contractor as it makes a far more satisfied crew on the job.

THE larger associations of contractors such as the American Construction Council, etc., and the large manufacturers' associations have all been trying to spread propaganda to show the advantage of all-year-round construction. Builders, in even the small towns, can do their part in this custom creating work by sending articles to the local papers stating what kind of work can be done in the winter time more conveniently than can be done in any other season of the building year. There is no reason why the builders in our smaller towns cannot work twelve months a year the same as builders in large cities.

THE outcome of the license law in North Carolina is being watched with considerable interest. Many contractors view the thing with disfavor, others are in favor of it. Time will tell the real story. Every good thing that we now enjoy was not looked upon with much favor in its embryonic stage, therefore, let us not condemn the license law too hastily, let's see what it will do.

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Residence of William Lucking, Esq. Cincinnati, Ohio
R. C. Hunter & Brother,
Architects

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The HOUSE of the MONTH

IN Covedale, just three miles out of Cincinnati, there stands a miniature Tudor castle such as American tourists travel miles to see abroad. This palatial residence known as "Covedale Gables," forms a part of the seventy-six-acre estate of William Lucking, Esquire. In its buildings, its landscaping and natural terrain it has few equals throughout the country.

Driving through the finely wrought iron gate, one follows a winding road rising at a gentle angle to the house itself. Here a true reproduction of that period of English architecture we know as "Tudor," stands out as a gem in a country setting.

For the most part, cheerful expanses of stucco greet the eye with just enough timber work and stone work to heighten the contrast. Topping the whole are roofs of slate, specially selected and laid at random to give the necessary antique effect. This is the general impression. The actual construction of the house is continuous double wall concrete with the exterior stucco applied with unusual ornamental effect best shown in the photograph.

On one end the walls of rough field stone meet a slate roof while the chimney is of clinker brick. Particular care was used in the selection of the brick; a car load being shipped from the East directly to the job.

All timber work is genuine old hand-adzed. In many cases the mortise and tenon holes have been patched with unusually fine effect. The casements shown are steel with leaded glass designed and manufactured in the English shops of Henry Hope Sons. Leaders and gutters are of lead made by the same company. Recessed in the Solarium doorways are grills of meticulous craftsmanship. In these details we find the reason why this home seems



THIS is the gateway to the beautiful Lucking estate in Cincinnati. The gates are of wrought iron in a single Early English bar design. A large lantern is supported on a graceful curved brace forming a continuation of the top line of gate. Gate supports are carefully selected of Kentucky field stone. Through this entrance, the driveway winds on up to the Lucking residence on the hill.

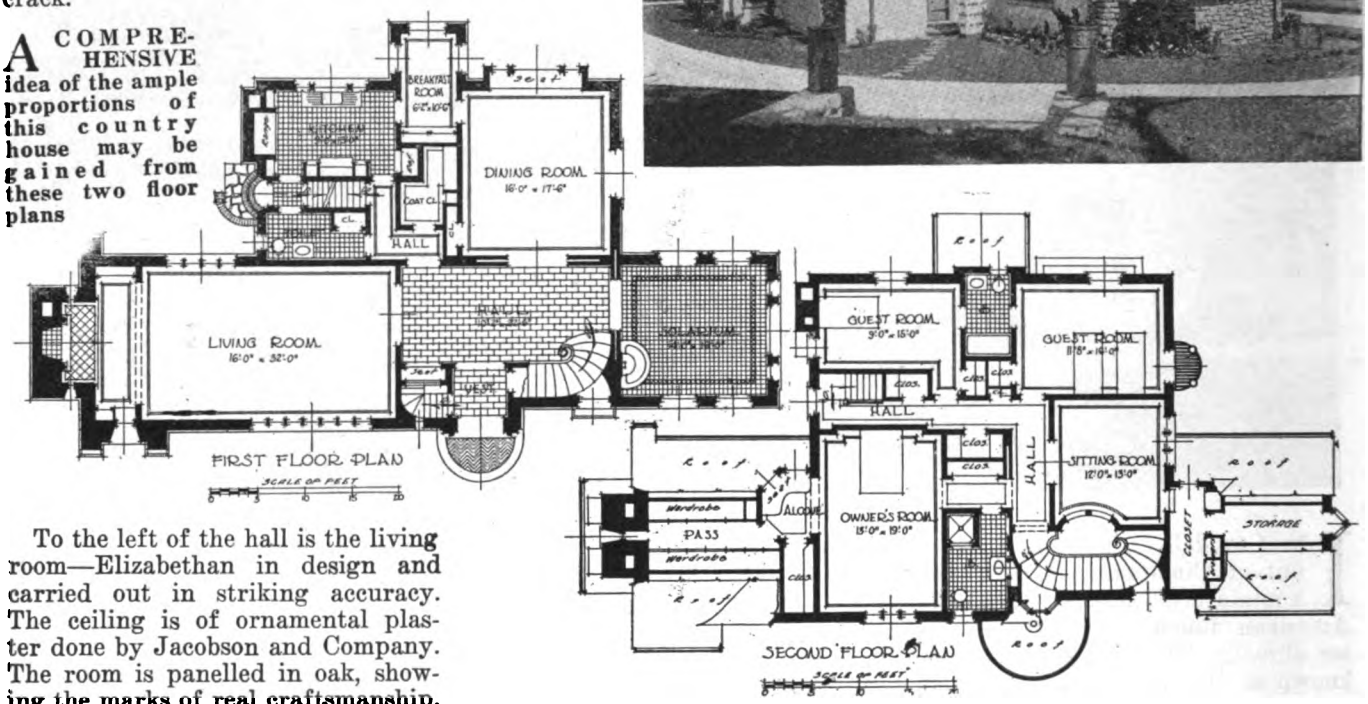
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so truly representative of its period and yet so adaptable to the modern country setting.

Passing through the front doors—these, by the way, made of real bronze—we come into a hall that is as beautiful as workmanship can make it. At one end, marble stairs lead to the second floor while following them is a hand rail of wrought bronze. On either side of the hall is a secret door leading down stairs. These doors are in reality huge marble slabs fitted on bronze frames, hung on pivot hinges, and balanced to a nicety. From the hall nothing is shown to reveal the opening save the merest suggestion of a crack.



A COMPREHENSIVE idea of the ample proportions of this country house may be gained from these two floor plans



To the left of the hall is the living room—Elizabethan in design and carried out in striking accuracy. The ceiling is of ornamental plaster done by Jacobson and Company. The room is panelled in oak, showing the marks of real craftsmanship. This work was done by Philip Feigin, Long Island City, N. Y. At one end a fireplace is recessed in the wall. The object of this manner of treatment finds its success in revealing from the outside an imitation of the mammoth fireplaces of an earlier period. The master touch of this room is found in the floor. It is walnut laid in short and long lengths of wide planks and so designed that it gives the effect of being pegged down. At the time the photograph of this room was taken furnishings had not yet been fitted out and the real magnificence can barely be discerned.

All other rooms on the first floor are fitted out with the same elegance that marks the ones described. The kitchen contains every imaginable electrical convenience while the toilet features silver-plated fixtures and specially turned lavatory and closet.

Up stairs the hall is laid in teakwood following the herringbone pattern and, as may be imagined, the effect is quite out of the ordinary.

The bathroom on this floor is probably as striking as any room in the entire house. Franz tile has been used and laid by W. H. Jacobson of New York. Painstaking efforts were made to select the most suitable type



Looking down the hall through the bronze doors. On either side is a secret marble door mounted on a bronze frame and hinges with nothing revealed from the hall side

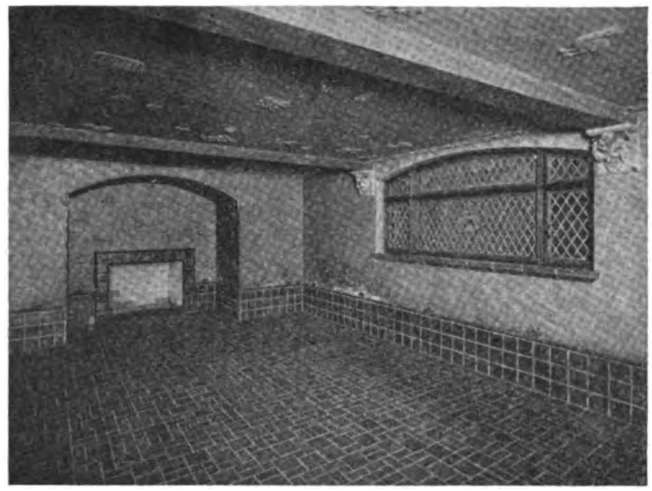


The stairway is of marble with a hand rail done in real bronze. Through the door one can see a portion of the solarium with its tiled floor

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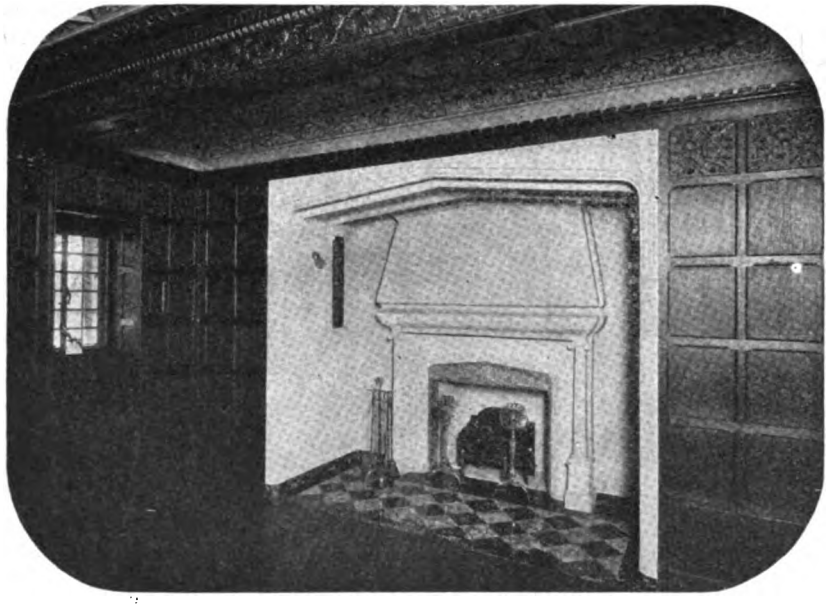


This room is carried out in Adam design. Lighting fixtures are silver set with interesting Wedgewoods.



A corner in the billiard room. The recessed fireplace fits into a nicety with beamed ceilings and tile floor.

THE living room features oak panelling and an ornamental fireplace of excellent workmanship. in cast stone; the ceiling is of ornamental plaster.



of tile and the results are everything that might be desired. The effect is that of Chinese red and gold. Roughly, they are fused red and gold tiles showing a mottled treatment. Contrasting with this color scheme are real bronze accessories, gold plated. Plumbing fixtures are by Mott, individually designed.

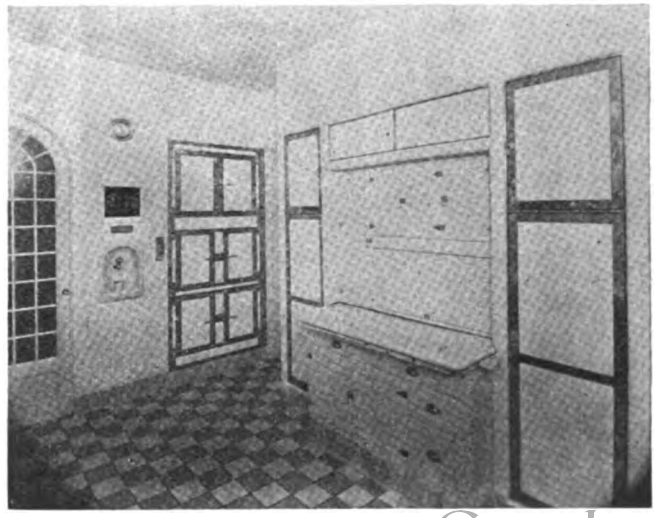
The success of the double wall continuous concrete construction has been attributed greatly to the system of laying that was used. The Van Guilder System, Inc., New York City, supplied the machines for this work.

The use of this wall system eliminates the cost of furring both on inside and out. In this case exterior stucco was applied directly over the concrete, while inside, panelling was installed without furring strips, leaving, in several cases, a half inch or less between wall and interior finish. Furring and lathing were

RED and gold are the dominating colors of this bathroom. Accessories are of gold plated bronze while the lavatory shown was designed for this room.

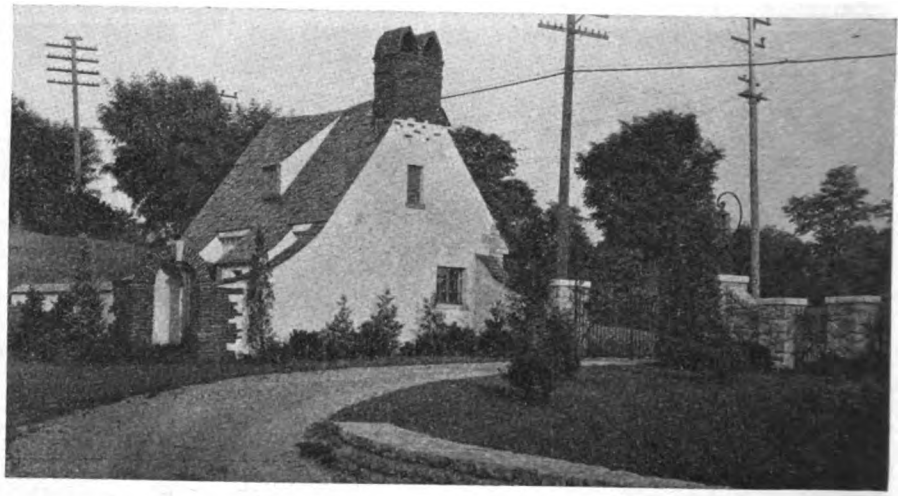


IN the kitchen one finds everything of finest workmanship and the most modern design. All cupboards are of vitrolite with nickeled trimmings.

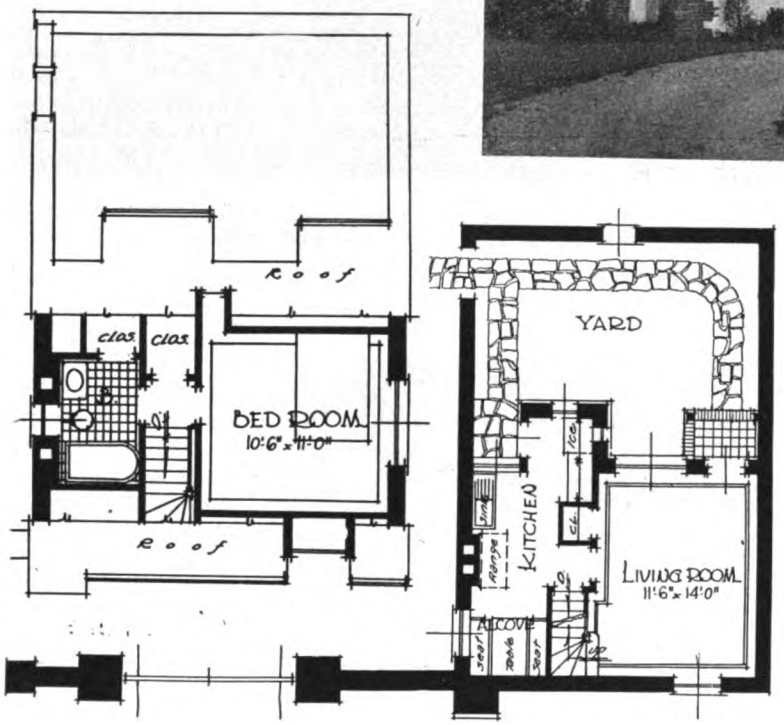


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VIEW from inside the grounds showing gate lodge and entrance gate. The design is thoroughly English and follows the same principles that guide the house.



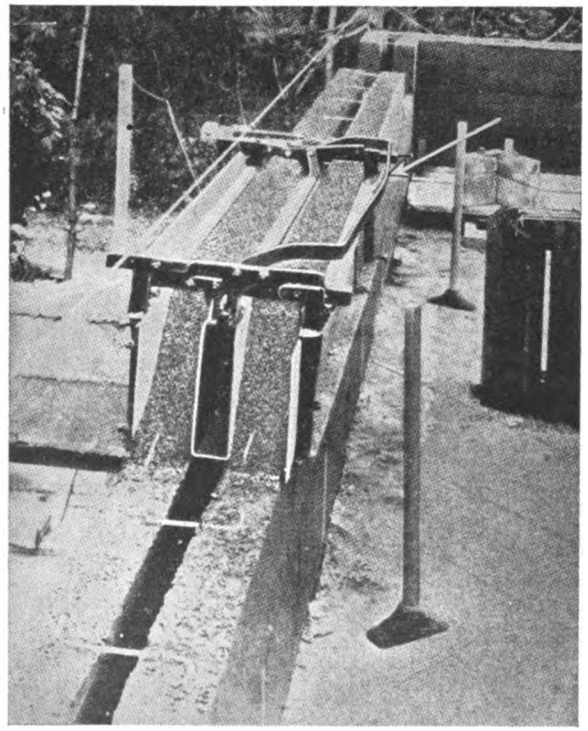
HERE are two floor plans of the gate lodge showing how comfortable a little house it is. Along the front the estate boundary wall is a continuation of the house



unnecessary as the air space in the wall provided the necessary insulation against the elements.

The actual construction work was done by the Cincinnati Double Wall Company of Cincinnati, Ohio. The construction of this particular home reflects creditably on this double wall system in that there are many "breaks" in the building. This brings out the adaptability of the system to any style of architecture. Both architect and builder were thoroughly satisfied with the results.

The architects and editors make the following acknowledgment for good craftsmanship: Tile by American Encaustic Tile Company, 16 East 41st Street, New York; Plumbing by J. L. Mott Iron Works, New York; Tile Setting by W. H. Jacobson Co., 2 West 47th Street, New York; Hardware by Bayer, Gardner-Himes Co., 101 Park Avenue New York; Floors by Coach & Son; Casement leaders and gutters by Henry Hope Sons, 103 Park Ave., New York; Stucco work and ornamental interior work by Jacobson Co., New York; Slate by Rising & Nelson, New York; Brick by O. W. Ketchum, Long Island, N. Y.; Corto Radiators and other heating equipment by American Radiator Company, New York; Panelling and other wood work by Philip Elgin, Long Island City, N. Y. All contributed their best to make this a perfect house.





A REAR view of the gate lodge revealing the graceful approach to the mansion. The little building rests snugly into the bank and fits harmoniously into the landscape.

THE Van Guilder System of double wall building employs a machine of this type. No forms are needed and a continuous sealed air space eliminates the need for furring and lathing.

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Are You One of the Builders of

A GOLD MEDAL HOME?

THIS fall ten successful builders are to be nominated and elected Gold Medal Builders of America. Those and fifteen others are to receive engraved certificates testifying that each ". . . having duly entered into competition with fellow builders from all parts of the United States for successful accomplishment in building one of the best selling homes in America is hereby awarded this certificate of merit by Building Age & National Builder for having erected dwellings which meet the requirements of architectural beauty, sound construction, practical utility and public acceptance and that he is entitled to full recognition for this achievement from his fellow craftsmen and American home owners." More than 25 other entrants will receive suitable awards.

The editors of this publication believe that after the requirements of architectural beauty and sound construction are met the test of any house plan is: will it sell? Professional critics are often known to laud a play to the skies only to see it fall flat in public appreciation and acceptance. And sometimes, when they have poured the vials of their righteous wrath into their criticisms, the play goes on to a record-breaking run. There is little nourishment for the builder in a plan which may be highly praised but which does not sell. So, we purpose to publish in the magazine and later in book form those designs and plans which have proved to be "best sellers." Thus we shall be able to put before our readers a series of designs in all price ranges and of every material which will prove of great value to them because they will readily sell.



HERE is the side of the solid Gold Medal ready for your name. Each medal is mounted on a purple velvet background placed in a satin lined morocco covered case. The design is by a foremost specialist in this work, insuring a perfect work of art that the Winners will be proud to show.

In order to carry this program through to a successful finish there must be shown a fine spirit of co-operation on the part of all of our builder readers. They should not hold back in the belief that their work is not worthy or that it "stands no chance." It may—in all probability will—stand every chance. They must realize that they are not only competing for the awards; they are entering into and co-operating to promote one of the finest business-building propositions ever offered their craft.

There is, of course, little or no trouble involved in entering the contest. We are simply asking that each builder reader send us the photographs, floor plans and data of those houses which he has found to be his "best sellers." The editors will act as the judges and their judgment will be final. Full credit will be given to architect, builder and contractor. The news of the awards will be broadcast to the local newspapers which will no doubt be glad to publish the achievement of a fellow townsman. The publicity which an award will carry will prove of unusual worth. One of the certificates of merit hung in the winner's office will be a standing advertisement of the first water. No builder reader can lose anything more than a little time. More than 50 of them will win handsomely. May we have your entry and have it by return mail?

How You Can Participate in this Campaign for

Better Built Homes

SIMPLY send us: A statement telling how many of each were sold, where they were located and the selling price of each, and a photograph of the house or houses which have proved to be "best sellers" with you, together with the floor plans.

We will recognize your courtesy in sending us materials for publication in this way:

1—To the ten selected as "first" we shall present (a) a Gold Metal; (b) an engrossed Certificate of Merit; (c) a life subscription to Building Age and National Builder; (d) a copy of the Book of Designs.

2—To the next fifteen (a) the Certificate of Merit; (b) a life subscription to the Magazine (c) a copy of the Book.

3—To the next twenty-five (a) a year's subscription to the Magazine; (b) a copy of the Book.

4—To all others whose entries may be published, a copy of the Book

5—No entrance fee is required.

6—The Editorial Board of this publication will pass on the facts submitted and make the selections.

7—Any informationn marked "confidential" will not be published.

Address "Editor, Best Selling Houses,"

BUILDING AGE AND NATIONAL BUILDER
239 West 39th Street, New York

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St. Paul's Cathedral

Will the Parsimony of Public Officials, Past and Present, Result in the Destruction of One of the World's Most Beautiful Buildings?

By Ernest Mc Cullough



The Spire of St. Paul's, an Architectural Gem. The last object which the outward bound Londoner regards. The first for which the eyes of homeward bound travelers seek

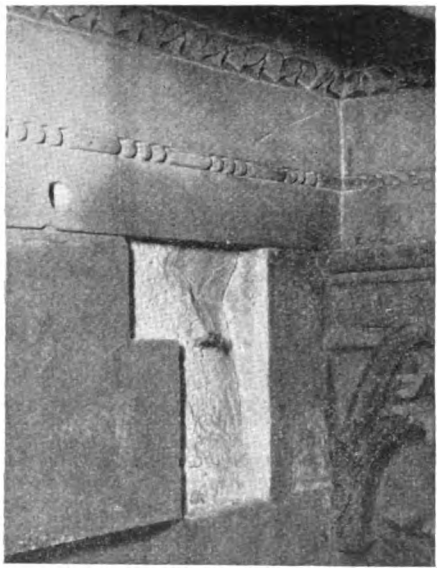
ST. PAUL'S, the great cathedral of London, is in danger. Designed by and constructed under the supervision of Sir Christopher Wren about 200 years ago it shows signs of fulfilling his prediction that it would last about 200 years.

The public authorities who employed him intended it to be a durable monument. They believed it would equal in life Westminster Abbey a few miles away, which is an enlargement of buildings erected eleven hundred years ago and which has existed in its present condition since about the year 1300.

The reason given by Wren for his prediction of a relatively short life for St. Paul's was the parsimony and meddlesomeness of the men who employed him.

This is an old story. It is repeated in practically every building operation, even of the most minor character. The owner interferes. Usually it is the type of owner who wishes to spend, for example, $5,000 and obtain a building that will look as if it cost at least $20,000. In all the discussions now raging over the repairing of St. Paul's this fact is not given the prominence it deserves.

The uninformed public is inclined to blame the great architect and builder. His notes and writings are full of references to the way he was hampered in doing his work.



Some of the damage suffered by ornamental stonework. Pieces of stone are forced off by the tremendous internal pressure. This action has been a matter of concern for many years

His notes reveal also that he was miserably paid.

Wren received a good education according to the standards of his day. While still young he became noted as a man of letters, an astronomer of note and his reputation as a mathematician was enviable. When he was 30 years old he entered His Majesty's Office of Works as a minor assistant.

It is believed that family influence had something to do with it as he was at least ten years older than the average of the men holding similar positions. Entering with enthusiasm into his new work he became an ardent student of the Renaissance type of architecture.

King Charles the Second during his exile in France had also become enamored of the Renaissance in architecture and became the patron of Wren. The latter was sent to Paris when he was 33 years old to make a study of new public buildings then being erected by eminent architects.

The following year, 1666, when he was only 34 years old and had been but four years engaged in the study and practice of architecture, the Great Fire of London gave him his opportunity.

He entered eagerly into competition with other men and proposed a plan for the rebuilding of London. Had his plan been accepted that city today would be more modern than are many cities which then were unknown. His plan was not accepted but he did secure the commission to design and build the Monument, 53



Spalling of stone above the capital of a pier. Similar damage has occurred above all the piers. An excellent view of the fine detail in the carved stone ring around base of dome

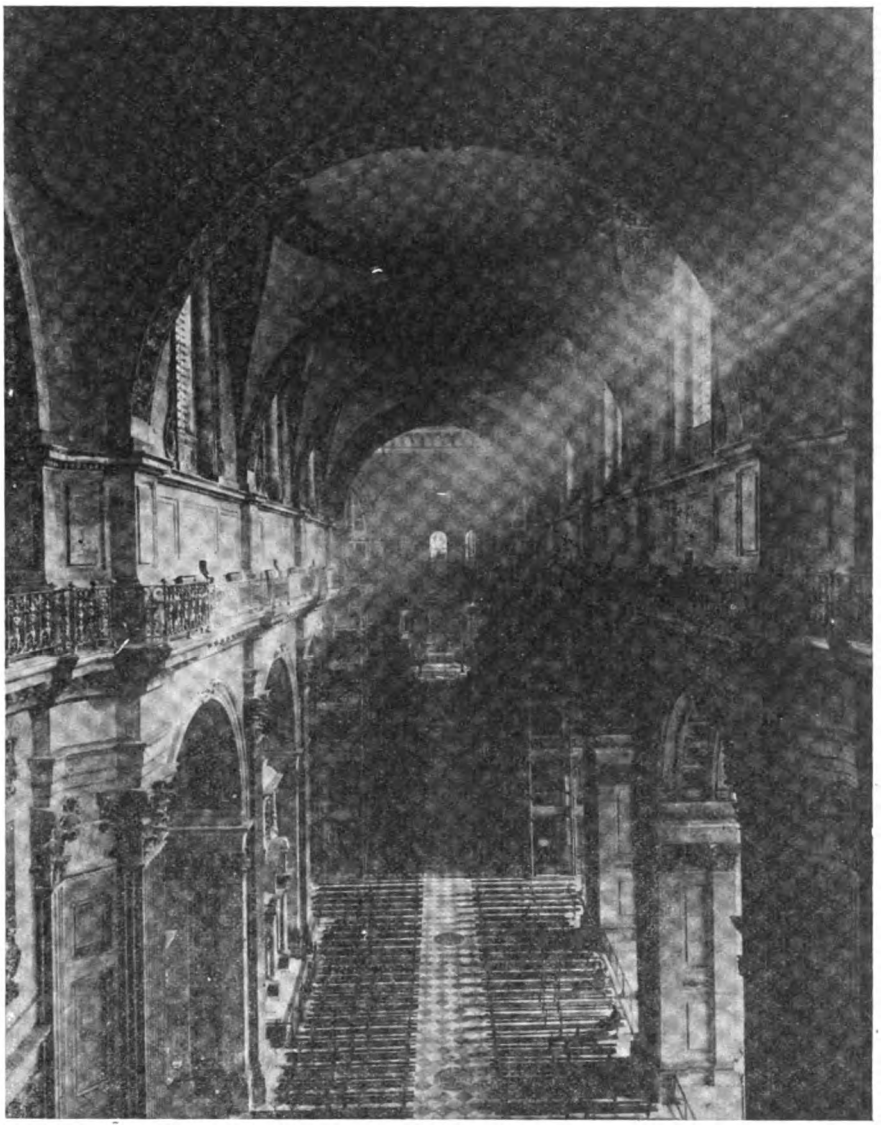
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A Severe Lesson in Building Design and Construction

churches and St. Paul's Cathedral.

St. Paul's is the third church to occupy the site, the first church having been erected at the time Christianity came to England. Tradition says it was originally perhaps a heathen temple. The second church was destroyed in the fire of 1666. In the design the genius of Wren had full play. He was a great structural engineer as well as an architect.

There were then no treatises to which men could refer for reliable information on strains and stresses. Practically nothing was known about the properties of materials. No experiment stations then existed for testing the strength of materials. Information on hand was empirical in character. Men who wrote about proper methods of design and who tried to trace the lines of stress in framework often mixed astrology and other pseudo-sciences with their speculations.



A view down the nave of St. Paul's looking toward the Choir and Altar. Scaffolding is in place around some of the piers. It may be many years before a similar view may again be taken. The dome today is partitioned off and workmen only are permitted to enter the rotunda

It was a stupendous undertaking in those days of superficial technical knowledge to design such a structure. The plan covers a ground area of 84,024 sq. ft. and the length is 510 ft. The interior has a length, including the apse, of 460 ft., a width, including aisles, of 100 ft., and an area of about 64,000 sq. ft. The dome, crowned with lantern, ball and cross, rises to a height of 366 ft. above the street level. At a height of 100 ft. above the main floor the cylindrical section of the dome has a diameter of 112 ft., and at about 160 ft. above the floor the diameter is 102 ft.

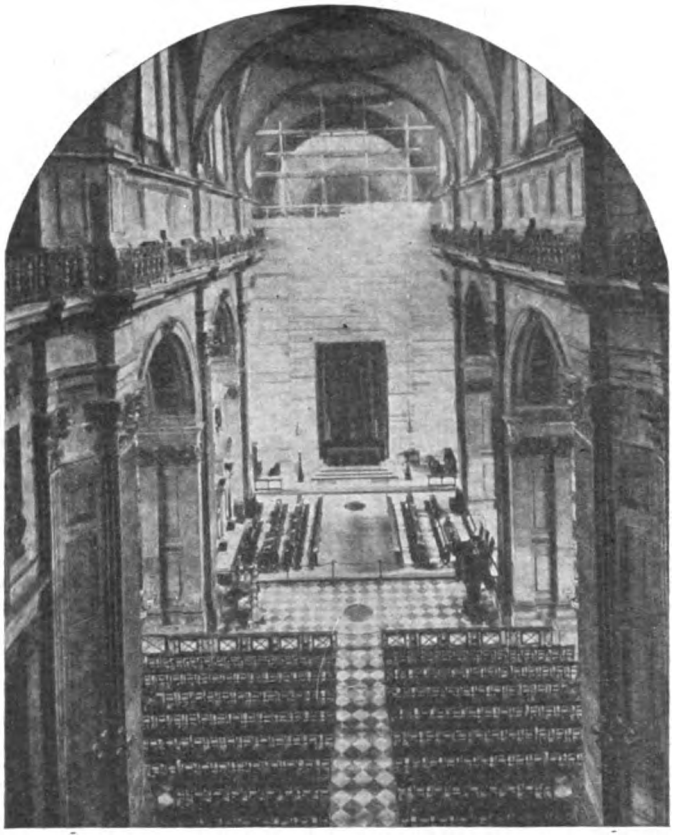
Resting on the cylindrical section is an inner dome of brick 18 in. thick, enclosed within a cone of brick 18 in. thick. The inner dome is the dome seen from the floor below and the highest point is 217 ft. above the floor. The brick cone supports at the top the lantern, ball and cross and also serves to carry the wooden framework of the outer dome, the surface of which is covered with lead as a roofing material.

The domes with their brick cone are supported on a masonry ring carried on eight main piers. Because of interference by his em-employers Wren had trouble with the settlement of the piers and unequal distribution of the loads imposed upon them. He had to put in a buttress ring surrounding the base of the cylinder in order to distribute the loads.

For many years this buttress ring has been cracking and the men who now maintain the building keep filling the cracks. At the top of the cylinder where the triple construction begins of two domes and a cone Wren put in iron chains as reinforcement, which showed that he had some idea as to how forces act in domes.

Wren had imagination and foresaw that in time there might be underground works which would affect the foundations. His arguments, however, were not heeded.

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HOW nave of St. Paul's looks today. The altar is placed against a screen of wood that cuts off the rotunda. The services are well attended. The work of filling the piers with grout and making other necessary repairs is expected to require several years of time.

of the work in Middle Age buildings endured for centuries only because so much time was taken in the erection of the buildings that the mortar hardened sufficiently to support the loads that were placed upon it.

The use of rubbish filled piers was a distinct backward step. The lime paste contained so much water that it killed the lime. The interiors of the piers are now filled with lime dust and small pieces of brick and stone. The pressure of the huge dome each year rests more and more upon the outer shells of stone. Cracks are spreading and from time to time many pieces of stone are forced off the faces. Settlement is taking place and unless the piers are reinforced they will fall.

Filling the piers with cement grout forced in under pressure permits the cathedral to be used but many very eminent engineers and builders say it is not enough. They claim that symptoms only are being treated and serious organic troubles are neglected.

Those who advocate grouting say that the expense of strengthening the foundations will be too great. The grouting, they say, will make the building last another generation at least. They hope that by that time the World War will have been paid for, taxation will be lessened and money can be obtained to do what should be done.

Their critics say that by that time it will be necessary to build a new cathedral. A public subscription opened by the London Times was so generously responded to that it is believed all the funds necessary can be had. The subjects of the British Empire throughout the world appear to be anxious to preserve the famous landmark.

A Dangerous Structure notice was served on the cathedral authorities and the space occupied by the dome is now partitioned off. Services take place in the nave of the building.

The sentiment that persists in doing patchwork appears to be a mixture in about equal parts of stubbornness, parsimony and ambition of the cathedral authorities to hold the church open at all costs at least during their lives. Let the future take care of the problems of the future.

The spirit in which the original construction was undertaken appears to survive two hundred years later. The spirit of the employer who wishes to direct in every detail the work of his better trained employee. Until this spirit is killed the world will continue to endure shoddy construction.

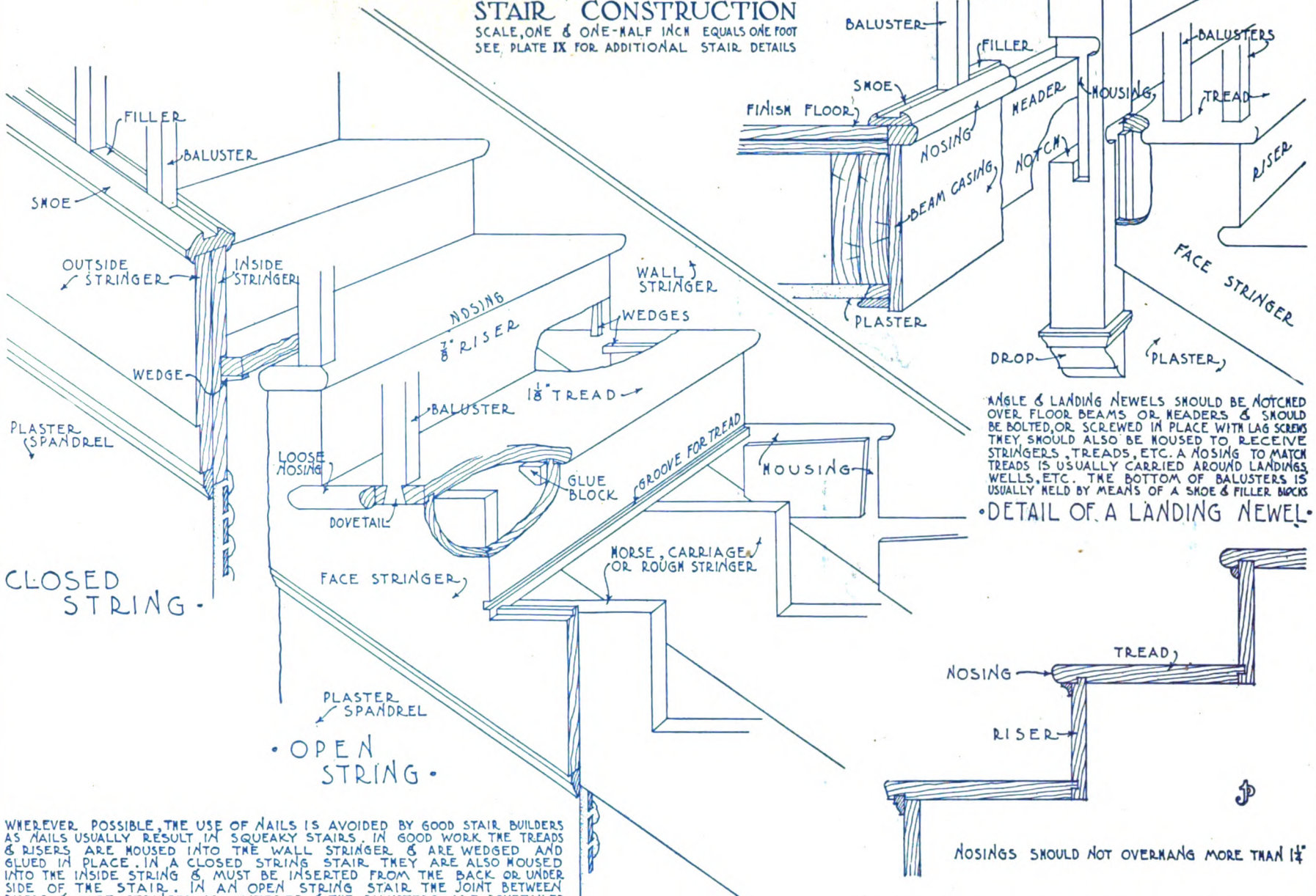


A view of the main piers of the dome of St. Paul's showing the scaffolding in place. Holes are drilled into the piers at each staging. The dust is washed out and blown out as well as possible, after which thin cement grout is forced in under pressure. By many competent authorities this is regarded as treating surface symptoms only and the ignoring of grave organic troubles.

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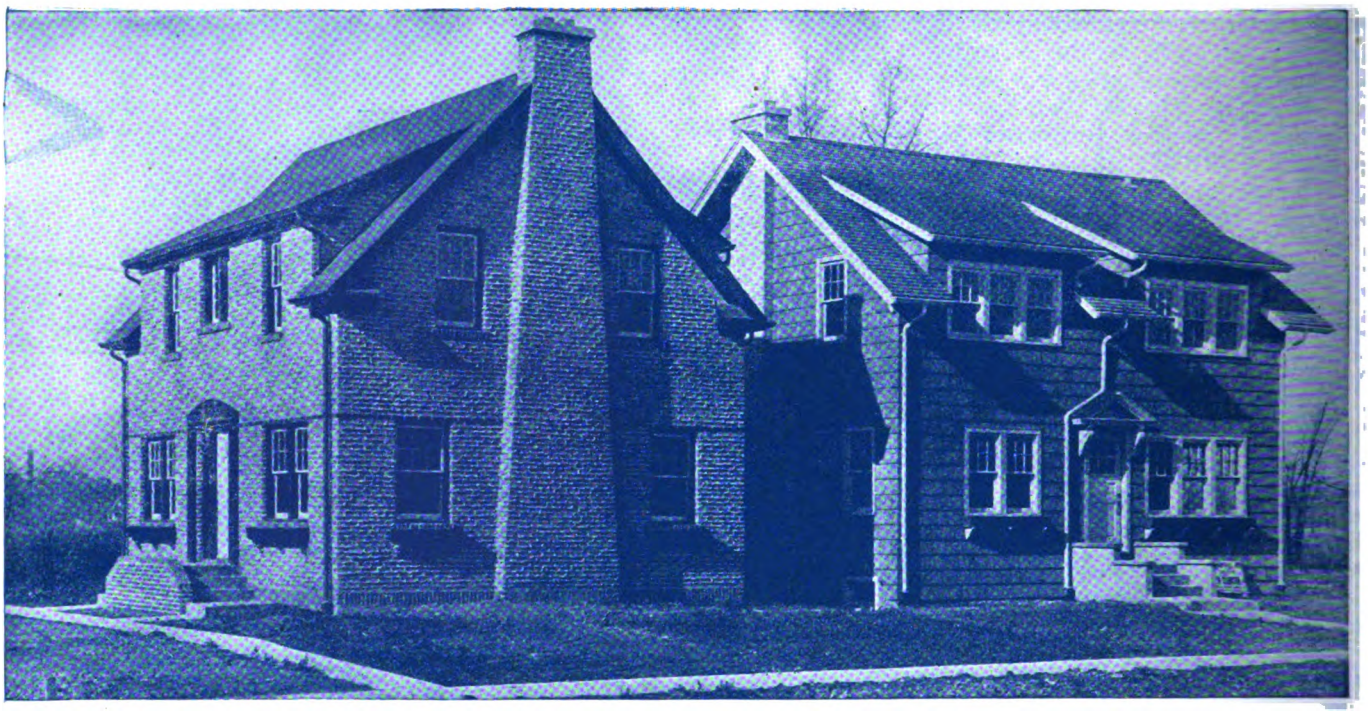
PLATE X.
STAIR CONSTRUCTION

SCALE, ONE & ONE-HALF INCH EQUALS ONE FOOT
SEE PLATE IX FOR ADDITIONAL STAIR DETAILS



WHEREVER POSSIBLE, THE USE OF NAILS IS AVOIDED BY GOOD STAIR BUILDERS AS NAILS USUALLY RESULT IN SQUEAKY STAIRS. IN GOOD WORK THE TREADS & RISERS ARE HOUSED INTO THE WALL STRINGER & ARE WEDGED AND GLUED IN PLACE. IN A CLOSED STRING STAIR THEY ARE ALSO HOUSED INTO THE INSIDE STRING & MUST BE INSERTED FROM THE BACK OR UNDER SIDE OF THE STAIR. IN AN OPEN STRING STAIR THE JOINT BETWEEN RISERS & FACE STRINGER IS MITERED, & THE BALUSTERS ARE DOVETAILED INTO THE TREADS. A LOOSE MOULDING TO MATCH THE NOSING IS USED TO COVER THE DOVETAILING. SHORT GLUE BLOCKS ARE SOMETIMES GLUED IN THE ANGLE BETWEEN TREAD & RISER

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Your Choice in Brick or Wood

The Plans in Blue Print Drawn Specially for Building Age and National Builder

HERE is a plan of a house that has been built in brick and in wood. Shakespeare in Romeo and Juliet wrote of "Two houses, both alike in dignity, in fair Verona, where we lay our scene." Instead of Verona these houses may be placed in any suburban city. The lines of the house look well with stucco walls. Slight changes in the treatment of windows in walls and dormers make the plan suitable for any material.

Taste, economy and convenience were the dominant motives in preparing the design. The work of the designer has received grateful endorsement from the owners. They say it is homelike and comfortable.

There is no waste of space. This result has been obtained without any appearance of too great an attempt at compactness. The rooms are generous in size and conveniently grouped.

Comfort has been studied and every modern device for securing it has been provided. A fireplace in the living room is deemed to be essential in all well ordered American homes. It is the one extravagance thrifty people demand, no matter how efficient the central heating apparatus may be.

In this plan the fireplace is generous in size and well located. On chilly, gusty, rainy days and on cold, blustering snowy days a seat in front of the fire will permit views to be had through the windows on either side.

We give here plans, specifications and quantity survey of the house as built of brick. To build it in frame the dimensions may be 4 inches less each way, for the brick walls are 8 inches thick. The exterior dimensions may be held to however, and the room sizes will be increased by the difference between the thickness of the walls of brick and wood. The drawings were made to a scale of one-quarter inch to the foot and had to be reduced about one-half for reproduction in order to fit the page size.

Outline of Specifications

EXTERIOR walls to be of common brick laid in skintled fashion. Chimney the same. Sills and door frame are face brick. Entrance platform of concrete or brick as preferred, with parapet wall of common brick with face brick coping.

INTERIOR FINISH of living room to me in rough plaster, tinted to suit owner. Hall and bedrooms papered. Trim enamelled. Dining room oak panelled wainscoting. Kitchen walls hung with washable wall covering. Bathroom walls above tiled wainscoting to be painted and enamelled. Ceiling the same. Concrete floor in basement painted gray. Walls of laundry, boiler room and coal closet painted with cold water paint.

WINDOWS to be of wood. Upper sash to have divided panes. Cellar sash to be of steel.

HEATING to be by hot water, steam or warm air, thermostatically controlled from upstairs rooms.

ROOF to be covered with either wood or composition shingles, slate or asbestos. Leaders: rectangular or zinc, cop- or galvanized iron.

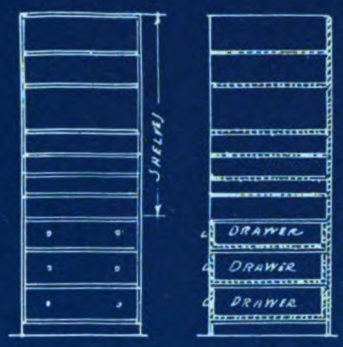
PLUMBING to include enamelled iron sink, lavatory and bath tub; porcelain closet and soapstone wash tube. Vent and drain pipes: cast iron. Water pipes: brass.

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SCHEDULE OF WINDOWS.

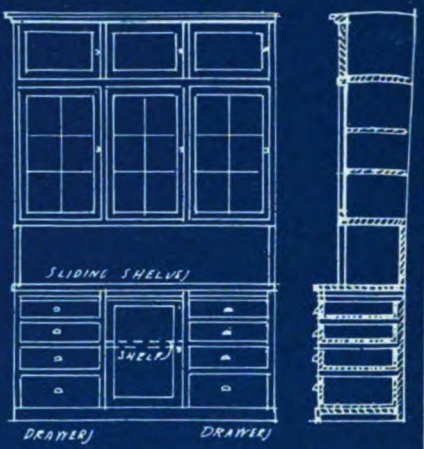
No 1	2'-8"	x 5'-2"	D.H WITH MULLIONS.
2	2'-8"	x 5'-2"	D.H. SINGLE
3	2'-8"	x 4'-0"	
4	2'-0"	x 5'-2"	
	SECOND FLOOR		
5	2'-8"	x 4'-6"	
6	2'-8"	x 4'-0"	
7	1'-8"	x 3'-6	CASEMENTS.
	BASEMENT		
8	2'-8"	x 4'-4"	TO SWING IN.

NOTE
SIZE OF DOORS
6'8" HIGH BASEMENT
7'0" " FIRST FLOOR
6'8" " SECOND FLOOR



ELEVATION OF CHEST OF DRAWERS

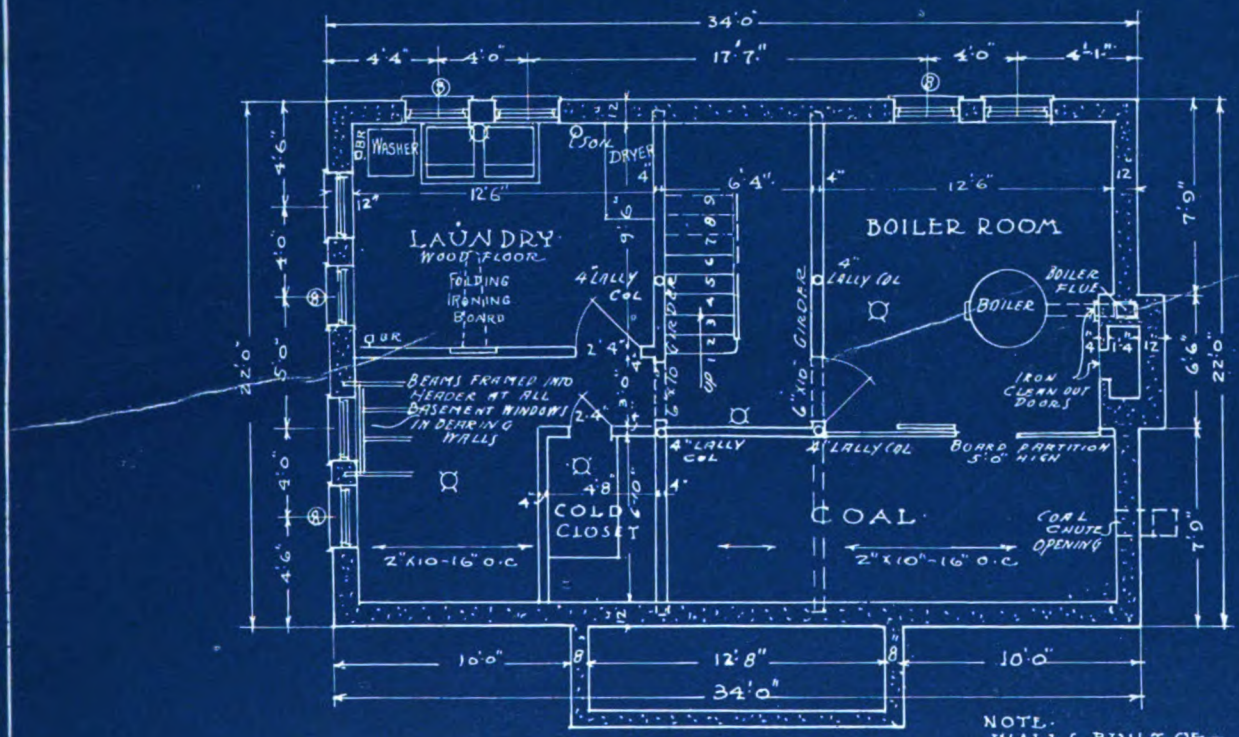
SECTION



ELEVATION OF CUPBOARD IN KITCHEN

SECTION

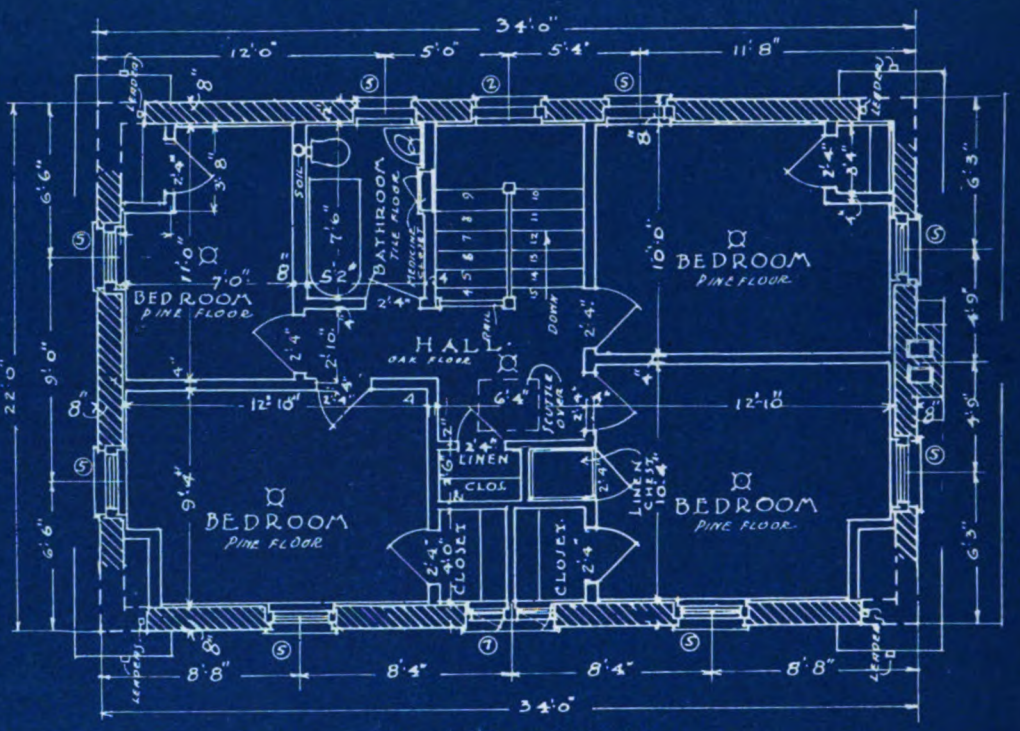
SCALE 1/2" = 1'-0"



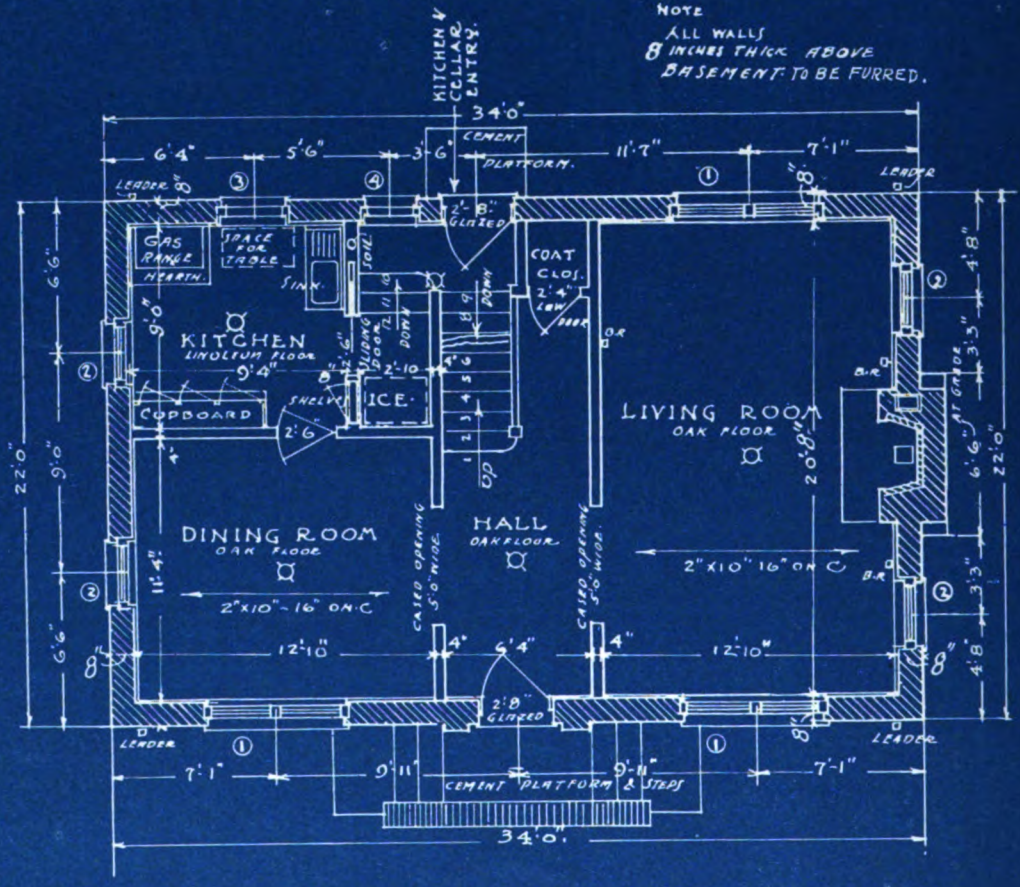
NOTE. WALLS BUILT OF CONCRETE.

BASEMENT
SCALE 1/4" 1'-0"

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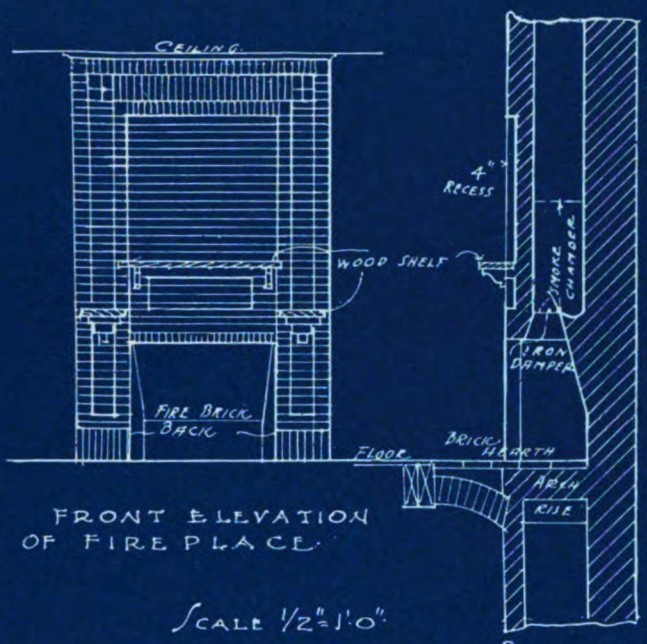
SECOND FLOOR



FIRST FLOOR

SCALE 1/4"-1'-0"

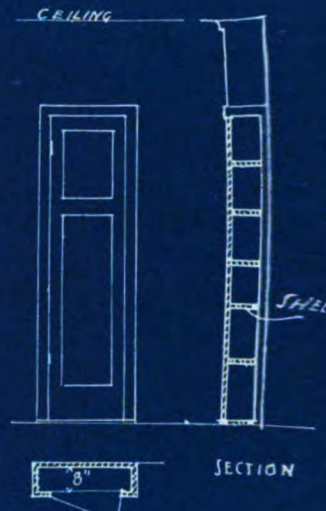
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FRONT ELEVATION OF FIRE PLACE.

SCALE 1/2"=1'-0"

SECTION.

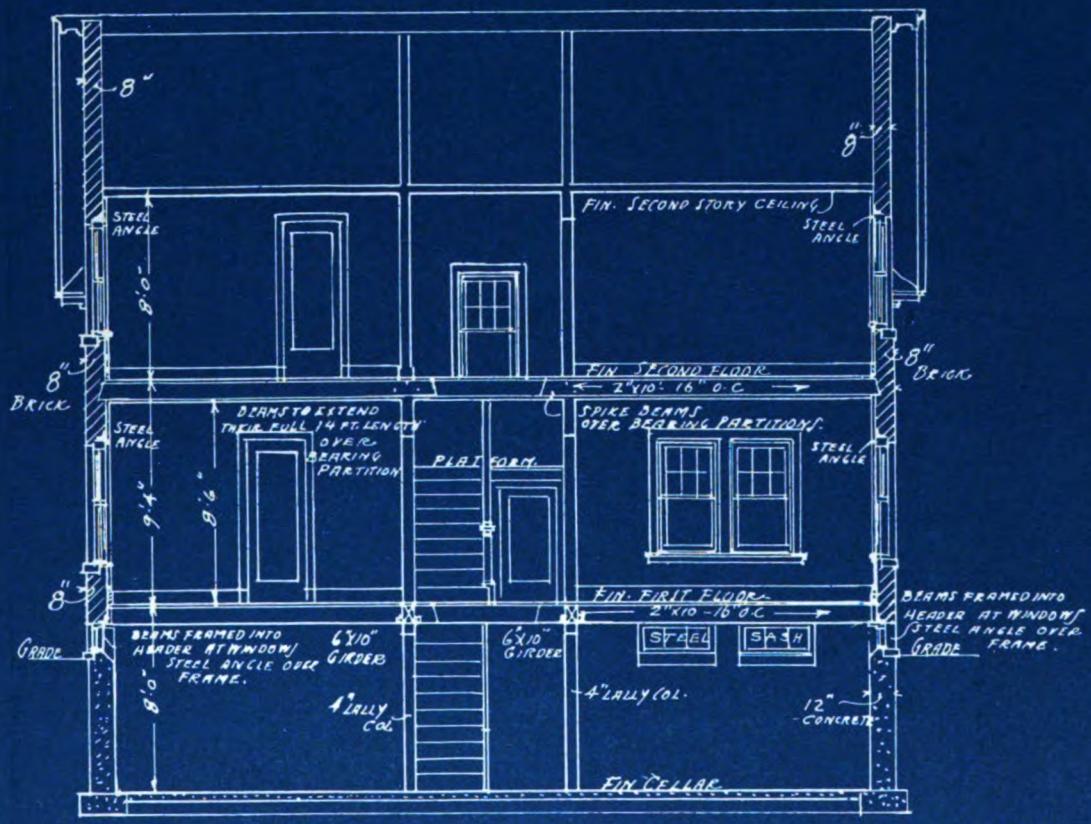


SECTION

PLAN.

DETAIL OF 8" PARTITION CLOSET IN KITCHEN.

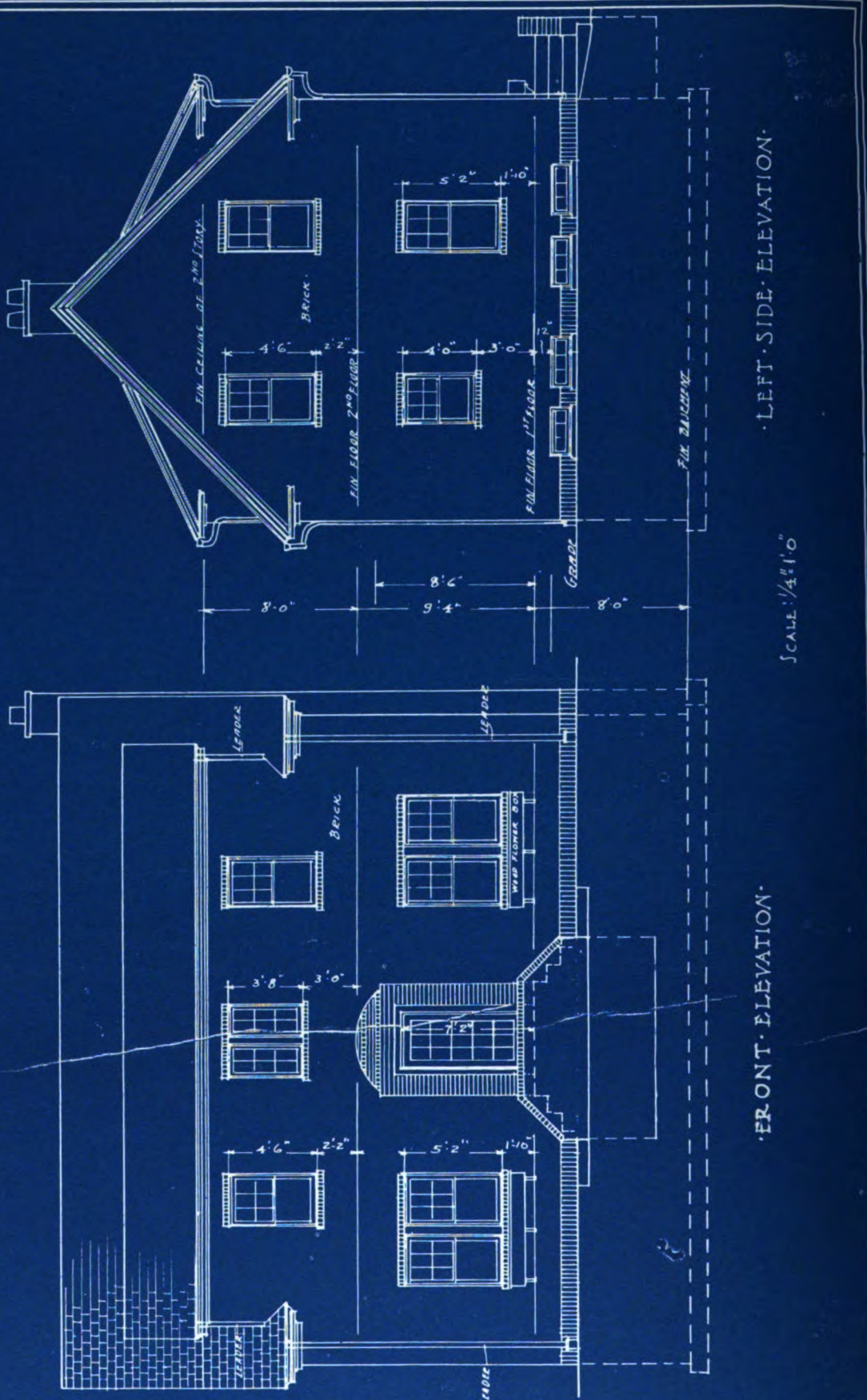
SCALE 1/2"=1'-0"



LONGITUDINAL SECTION.

SCALE 1/4"=1'-0"

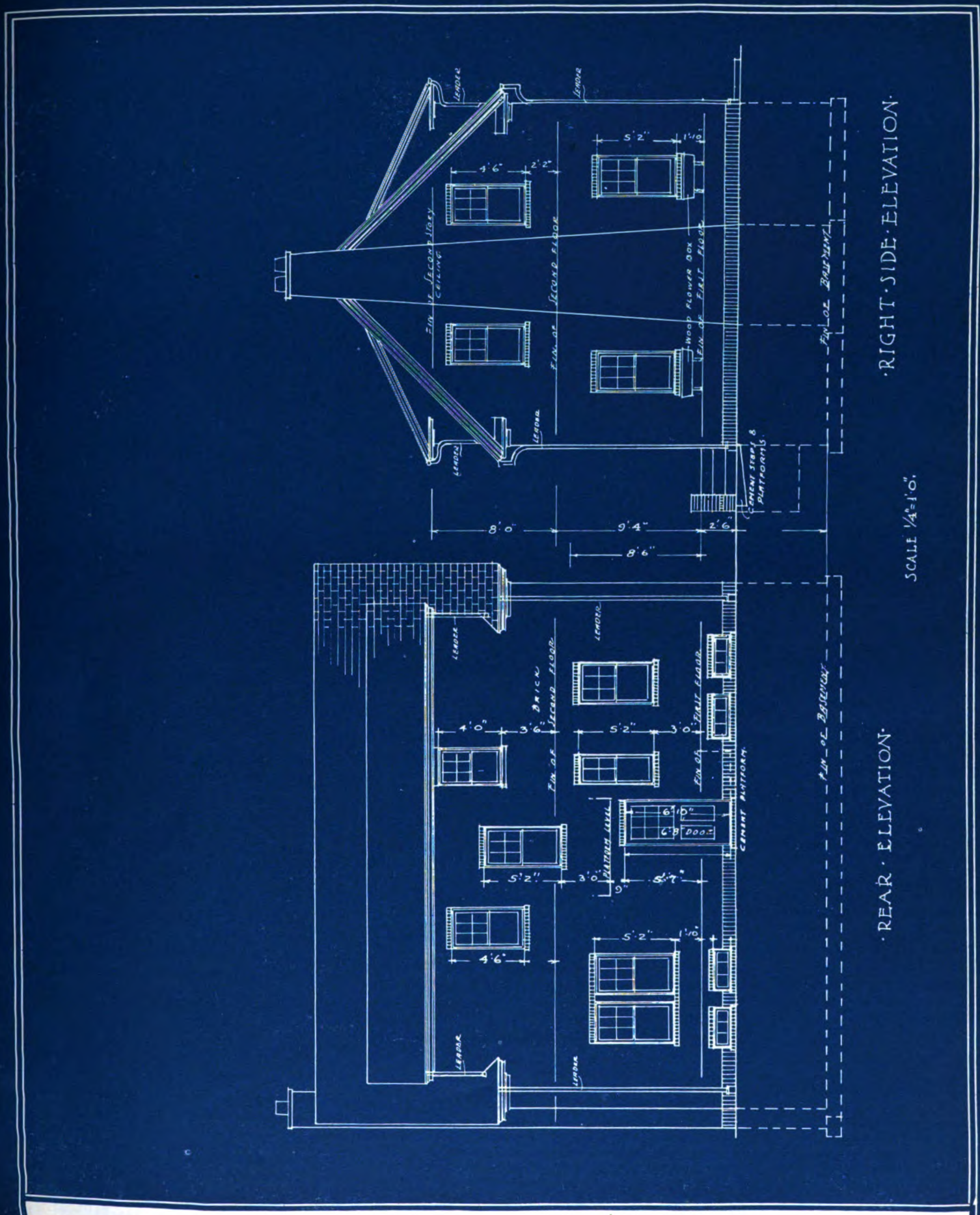
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BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS

Drawn by William Sanger

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Quantity Survey of Materials

Prepared by Walter J. Fradgley

For the Colonial Brick House

EXCAVATION

Basement (2 ft. larger than wall measurement)	118 Cu. yd.
Trenches and pier footings	10 Cu. yd.
Back fill around foundation & footings	25 Cu. yd.

MASONRY AND IRON WORK

Concrete foundation walls and footings	756 Cu. ft.
Common brick, exterior walls and chimneys	36,360 Brick
Fire brick for fireplace	165 Brick
Face brick, front entrance door, window sills, caps, water table	1,792 Brick
Face brick for fireplace	420 Brick
Concrete trimmer arch for fireplace	28 Sq. ft.
Ash dump for fireplace	1 Piece
Fireplace damper	1 Piece
C. I. Cleanout door and frame	1 Piece
Flue timbels	1 Piece
8 in. x 12in. Flue lining	56 Lin. ft.
Concrete basement floor, 3 in. base, ¾ in. topping	640 Sq. ft.
Concrete porch floor and steps	64 Cu. ft.
4 in. Lalley columns, bases and caps	4 Pieces
Angle iron lintels	1,088 Lbs.
Coal chute	1 Piece

CARPENTRY

6x10 Girders, basement	220 Bd. ft.
2x 8 Wall plates	96 Bd. ft.
2x10 Floor joist, 1st and 2nd floors	1,926 Bd. ft.
2x 4 2nd floor ceiling joist	367 Bd. ft.
2x 4 Roof rafters	720 Bd. ft.
1x 3 Bridging	75 Bd. ft.
2x 4 Interior studs and plates	1,671 Bd. ft.
1x 2 Furring, exterior walls	347 Bd. ft.
1x 6 Rough floors	1,536 Bd. ft.
1x 6 Roof boards	1,555 Bd. ft.
Roofing	15 Squares
2¼ in. Face finished floors	1,707 Bd. ft.
Paper under finished floors	13 Squares
1x 4 Finish, gables and eaves	60 Bd. ft.
1x 8 Facia board, gables and eaves	120 Bd. ft.
1x 8 Soffit, gables and eaves	120 Bd. ft.
1x 3 Bed mould, gables and eaves	200 Bd. ft.
2 in. Cove mould, gables and eaves	200 Bd. ft.
1x 8 Shiplap sheathing, dormers	160 Bd. ft.
Basement coal bin partitions	
Wall board (if substituted for plaster, 1st and 2nd floors	120 Bd. ft. 6,000 Sq. ft.

STAIRS

First floor to basement	1 Flight
First floor to second floor	1 Flight

PAINTING

Exterior woodwork	26 Squares
Interior woodwork	30 Squares
Finished floors	16 Squares

MILL WORK

Closet shelving	120 Bd. ft.
Hook strip for closets	60 Lin. ft.
Base and quarter round	452 Lin. ft.
Picture mould	288 Lin. ft.
Mantel shelf	3 Pieces
Kitchen dresser	1 Piece
Kitchen case, shelves	1 Piece
Linen closet	1 Piece
Medicine case	1 Piece
Scuttle door and frame	1 Piece
Outside doors (frames and trim complete)	2 openings
Inside doors (frames and trim complete)	13 openings
Basement doors (frames and trim complete)	3 openings
Cased openings (concrete)	2 openings
Windows (frames and trim complete)	15 openings 3 openings
Mullion casement windows (frames and trim complete)	1 opening
Basement windows (frames and trim complete)	8 openings
Flower boxes	2 pieces

LATH AND PLASTER

Plaster, interior walls and ceilings, 1st and 2nd floors	629 Sq. yds.
Plaster, interior walls and ceilings, basement	174 Sq. yds.
Lath to cover	

SHEET METAL

Gutters	72 Lin. ft.
Conductors	80 Lin. ft.
Chimney flashing	14 Sq. ft.
Elbows	8 Pieces
Flash and counter flash	36 Lin. ft.

TILE WORK

Tile floor, bathrooms	36 Sq. ft.

HARDWARE

4x4 Exterior door butts	3 Pair
Exterior door lock sets	2 Sets
3½x3½ Interior door butts	12 Pair
Interior door lock sets	13 Sets
Double acting door hinges	1 Set
Sliding door track and hanger	1 Set
Sash pulleys	84 Pieces
Window sash locks	21 Pieces
Window sash lifts	21 Pieces
Door bumpers	15 Pieces
Coat hooks	6 Doz.
3½x3½ Casement sash hardware	2 Pair
Casement fasteners	2 Pieces
Casement adjusters	2 Pieces
2½x2½ Butts, kitchen cases, etc.	8 Pair
Drawer pulls	14 Pieces
Cupboard turns	8 Pieces
Basement sash hardware	4 Sets
Basement door hardware	3 Sets

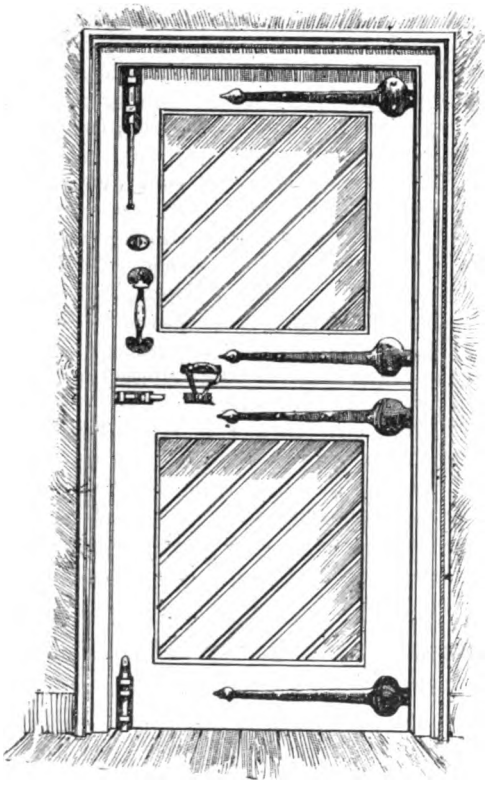
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STRAP HINGES

An Artistic Revival

THE return to Colonial simplicity of design in places where climatic conditions warrant it is one of the outstanding features of modern home building. With it comes quite naturally the use of the strong appearing door and window hardware of Revolutionary days.

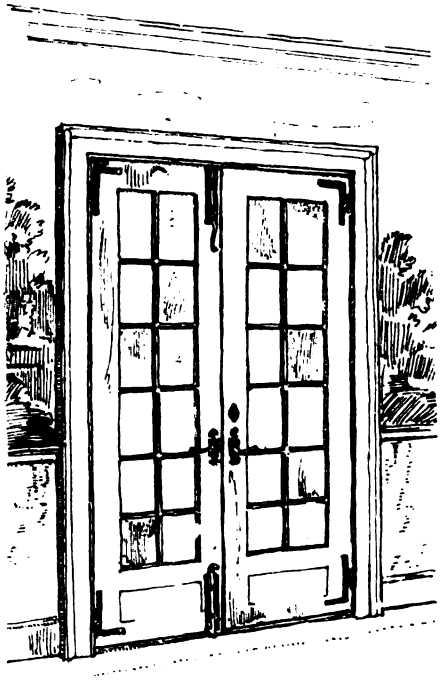
Taste in the olden days was developed through a love for things that looked well, tempered by the need for economy in cost. Add to this the limitations of ancient manufacturers and reliance upon local craftsmen and we know why the homes of several generations ago appear today to be so beautiful.



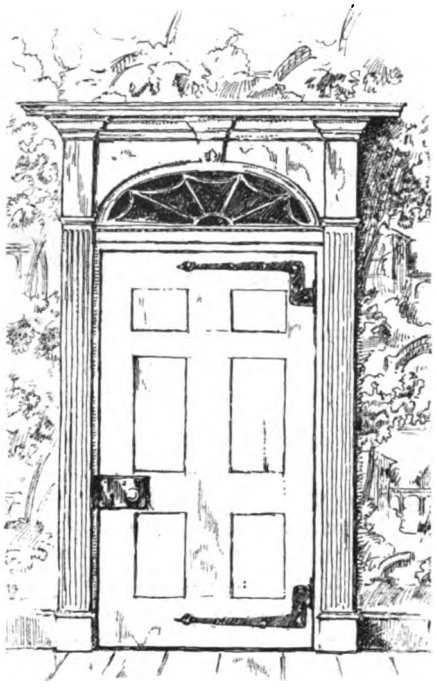
This Dutch door with hand-made hardware appears to belong with the comfortable Colonial small home

Simplicity of outline in the building lines may be, and it often is, enhanced in beauty by quiet good taste in the decoration of surfaces. Doors not made with much panelling do not look well with concealed hinges and a door handle lacking an escutcheon. For such doors strap hinges and prominent escutcheons are required. It was for the purpose of relieving otherwise bare surfaces that the pioneer builders in all countries made door and window hardware such a prominent feature of decoration.

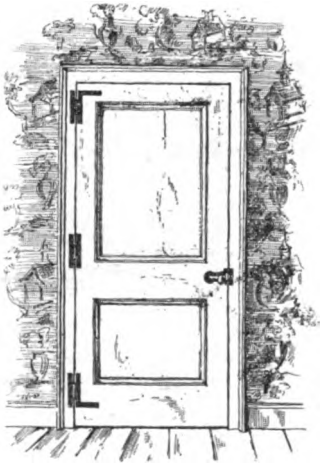
A few examples are shown here of doors used in a number of homes recently built. It will be observed that the outstanding feature is the strap hinge. Catches and locks are but secondary yet are made prominent enough to create a sense of balance in the design We are indebted to the courtesy of Arthur Todhunter of New York for the sketches from which the cuts were made.



The charm of this French door is enhanced by the quaint strap hinges and many pieces of hardware



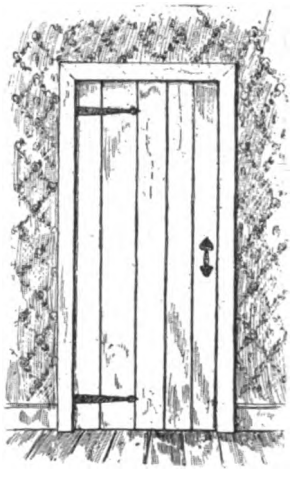
The interior face of this exterior door gives a feeling of comfort because of the strong-looking hinges and lock



The simplicity of this door is emphasized by the custom made hinges and the bolt-lock



A door that is a picture of comfort and security with a latch that betokens hospitality



Only strap hinges and a plain latch appear to be fitting to this door made of planks

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Parking Cars In Cities

Staggered Floor Garages With Short Ramps Offer A Solution to a Big Problem

COMPLETING the first step toward the solution of the automobile parking problem in Detroit, Michigan, the third unit of Detroit Garages, Inc., was opened recently at Cass Avenue and Larned Street.



Interior view of typical storage garage with ramps. The staggered floors require short ramps with easy grade

The building is six stories in height and is constructed throughout with steel and concrete. It rounds out a group of three such garages intended to serve the large downtown buildings, department stores and hotels. The owners plan to erect other units in districts where such service may be shown to be most needed. The construction of such other garages will be commenced as soon as the present units reach their capacity.

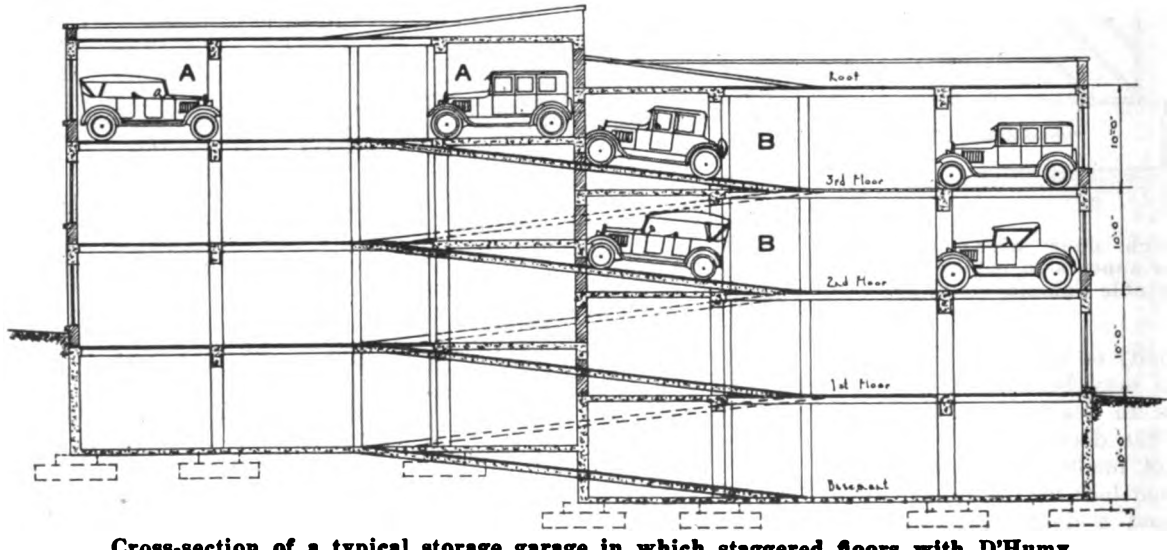
The three buildings now in service represent an initial investment of $1,500,000. Their combined floor area of 286,000 sq. ft. is capable of accommodating 1,500 automobiles. A survey showed that the average block will hold 50 cars parked against curbstones. When the three garages are filled to capacity they will clear 30 blocks of streets of cars that usually park for long periods of time, thus freeing the space for shoppers' cars.

Located at three strategic points contiguous to down-town Detroit these three garages provide daily parking facilities for many regular patrons. They also offer a highly diversified service to those who may be called by business or pleasure to this section of the city and wish to be relieved of parking troubles.

The disposition of cars during business hours in these days when so many employees drive to business in cars of their own is a serious problem. In Detroit it had become so acute that a number of large firms and companies contemplated erecting garages for the use of their tenants and employees. Some had actually taken the first steps towards the purchase or leasing of property and the preparation of plans. This would have meant numerous small garages not located always in the most convenient places.

Detroit Garages, Inc., succeeded with slight effort in interesting many of the companies intending, or contemplating, such action and has worked out for each a maximum of service. For large office buildings, manufacturing plants and hotels having many tenants and employees this amounts to offering a choice of any one of three conveniently located fireproof garages instead of but one much cheaper in construction and perhaps less conveniently located. Those coming in from the west, for example, use the west garage, those from the east the east garage, etc., thus avoiding undue congestion in crossing main streets.

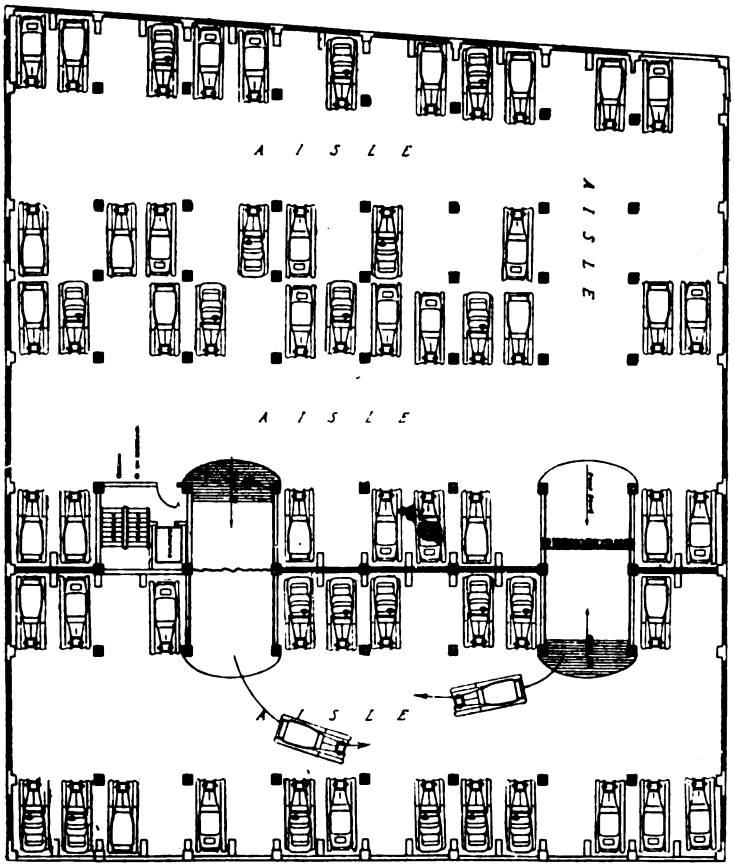
The buildings are flood lighted with light reflected from walls and ceilings. A ramp type drive circles upward through the center of each



Cross-section of a typical storage garage in which staggered floors with D'Humy motor ramps give a maximum of parking space

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Congested Streets in Busy Sections of Our Cities Need Garages to Provide Proper Parking Space



FLOOR plan of a storage garage with staggered floors and ramps. The irregular shape of the lot was not a serious drawback in this building

building to enable drivers to reach each floor.

Complete service by uniformed attendants is furnished, including chauffeur service day and night, washing, polishing, car rentals and other services desired by car owners. There is also an organized service for delivering patrons to their destinations by taxi.

The theatre-goer may leave his or her car at the garage and be taken to the afternoon or evening performance in a taxi. After the performance the patron is taken back to the garage in a taxi. For this service there is a flat rate.

Transient parking is taken care of on a basis of 25 cents for the first hour and five cents for each additional hour up to six, after which daily rates apply, up to 75 cents for 12 hours. This type of service is in demand at the North Unit, situated in the center of the hotel and theatre district.

Many down town merchants and building managers are co-operating by directing drivers to the garages of Detroit Garages, Inc. In this way they find parking service for cars needing it and avoid congestion near the entrances to the buildings in which they are interested.

A study of the parking problem showed that fully 60 per cent of the cars parked in the down town district of Detroit are owned by tenants and employees of the different buildings. They belong in the class of what are designated as "all day parkers." They drive down town early in the morning, park their cars as close as possible to their places of business and leave the cars for 8 and 9 hours in one spot.

The problem to be solved in taking care of cars in crowded city streets is first to provide spaces for "all day parkers." The space they leave free will then be available for temporary parking by people who come down town to make purchases or transact other necessary business. Such space would then serve several people. All day parking interferes with retail trade and is thus kept by the police on side streets as much as possible. It is a hindrance to the logical development of such streets and should be abolished.



VIEW of the East Unit of Detroit Garages. Inc., a company which has solved the parking problem in a great many congested areas

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Grasping Builder Opportunity



¶There is nothing startling in the success of these aggressive young builders—it is a story of industry and good judgment that fits the work of every ambitious contractor. You will find it well worth reading

By B. C. REBER

SAM BENNETT of San Antonio, Texas, builder of sixty-odd buildings—homes that are completely ready when the owner moves in

IN years gone by, the young man entering into business for himself was not generally a young man in years. Such times, however, are a thing of the past. Today, the success of a business, or the ability of the man at its head, is not measured in years, but rather in the aggressiveness of the man himself. Just as a great many of our newest inventions are proving successful; so, too, are some of our youngest business men leaders in their respective fields.

Two years ago, a young man gave up the position he had held with a lumber company to go into business for himself. He was a young man to take up the task which he had set for himself; for he had not yet reached his thirtieth birthday. This matter of age, however, did not prevent him from building some of the most attractive homes in the city of San Antonio. And during the time he has been building and selling these homes he has had only one turnback, and in this case it could have been avoided. This is his record out of more than sixty-five homes in two years.

The young man is Sam C. Bennett, president and founder of the Sam C. Bennett Company of San Antonio, Texas.

The story of Mr. Bennett and the homes he has built in San Atonio is an unusual story. It is unusual because he has steadily forged ahead despite keen competition. It is unusual because of the organization he has built up whereby he has cut his overhead to a minimum, thus giving his customers the benefit of the saving. And it is unusual because he has sold homes to more than threescore people, and none of them has uttered a complaint. In fact, the greater part of his new business is due to the recommendations of the people to whom he has sold houses.



One of the attractive little dwellings that have made the Bennett firm an organizaion of importance in San Antonio

"I wanted to give the people of San Antonio something new in homes," Mr. Bennett told me, when I met him in the attractive little office he has built in the new division he has opened up. "I had been with a lumber company for a good many years and had an opportuity of seeing what the people wanted in homes.

"Two years ago last January, I determined to strike out for myself. I had saved a little money, and I felt that if I was ever going to get out and make money for myself instead of the other fellow, the only time in which to start was the present.

"It seemed to me that if a builder could put up a home instead of a house, he would not have any trouble in disposing of it, and it would stay sold. It is on this principle that we have operated from the start, and our record speaks for itself.

"We have a minimum price of



THE Bennett office is situated where it can be used to best advantage—on the job. In addition to saving office rent these builders find that close contact with purchasers is a big and very important asset

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ROW of houses of which any contractor may be proud. Over three score of this type have been built in the vicinity of San Antonio by the Bennett Brothers

$5,500, and the highest priced home that we have built thus far cost about $14,000. Every home is completely furnished throughout, everything being ready for the owner to move in. By being completely furnished, I mean that we connect the water and gas, hang the curtains and draperies, place all the built-in furniture that is essential to a comfortable home, and fix it up in tip-top shape. Moving into a new home always demands a certain amount of new furniture. That is enough for the owner to attend to without being obliged to look after a lot of little things that are really a part of the home.

"I wanted to build these homes, ready for the owner to move into, and I wanted to build them at a price that would appeal to the average man in a position to appreciate such a home. How to do it was a problem, but we have arranged it very nicely.

"My brother is a builder like myself, so I took him in with me. Then, I engaged the services of a lady who has had a wide and successful experience in interior decorating. When the three of us formed the nucleus of the business, we divided it into three shares, each having their own part in the creation of each home.

"My brother designs the homes and superintends the construction. This eliminates the necessity of engaging the services of a contractor, and it gives us better results since we know exactly what we want and can see that we get it.

"Mrs. Trubshaw has had considerable experience in interior decorating, so she looks after the selection of the wall paper, the paint, curtains, draperies, and fixtures.

"I look after the financing and what other work that is not taken care of by Mrs. Trubshaw and my brother. We all keep busy and we all work in harmony.

"We buy everything for each home as it is needed, paying cash and taking advantage of the discount. We also handle our own paper, so we are able to save considerably in this way and give our home owners the advantage.

"In selling our homes, we use care in picking the customers. We appreciate that everyone cannot afford to own one of our homes and for that reason we make sure that they are in a position to buy one before we try to sell to them. The one sale that we had to take back could have been prevented if I had listened to my head instead of my heart.

"We are going right ahead just as we have been going. We did have our office in a downtown office building, but we found that it was costing us too much rent and we were not in as close touch with our work as we wanted to be. So we built an attractive little office right on the grounds and moved into the center of the field.

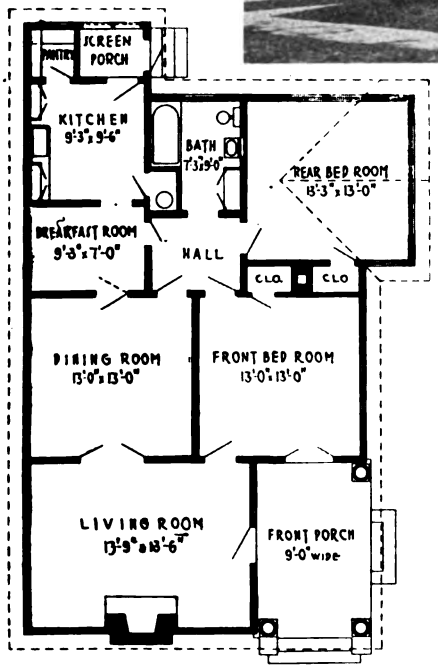
That is the story of Sam Bennett who might properly be termed a master home builder of San Antonio, Texas. Here is a young man who has only recently passed his thirtieth birthday, and he has built more than threescore homes, selling the majority of them. For the greater part of these thirty years, he was working for the other fellow; but when he did get started for himself, he made up for lost time.



W. C. BENNETT, who designs the homes and superintends the construction. Thus the company is assured that everything is carried out as planned in the office



TYPICAL Bennett house showing how compactly and neatly the rooms are arranged. The exterior is simple yet shows the result of good taste and a thorough knowledge of harmony in design. This is the way the house looks when the purchaser takes possession.



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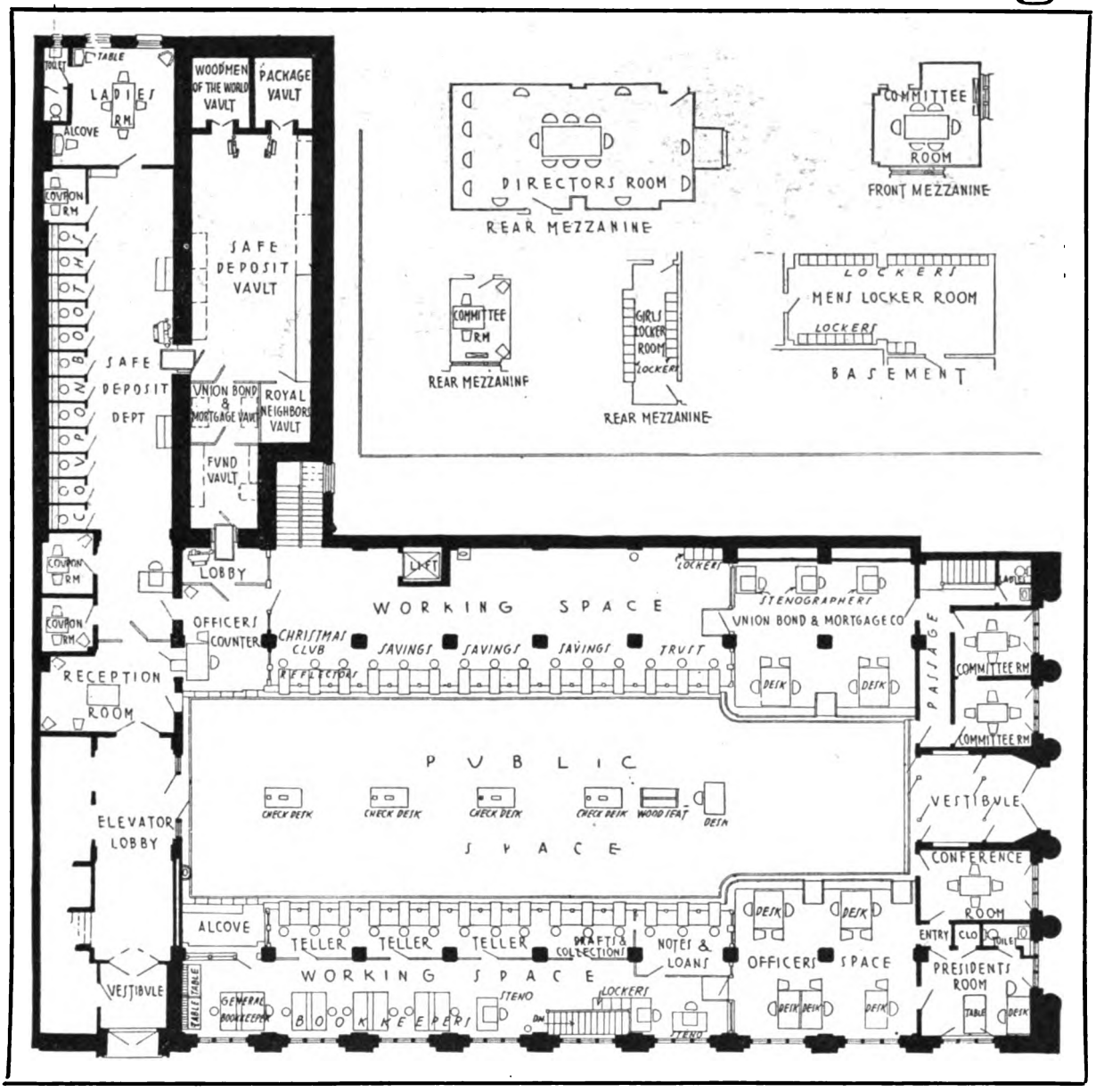


The Union—Davenport Trust and Savings Bank Building

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Davenport, Iowa, Has Right to Be Proud of This

Bank and Office Building



IN the city of Davenport, Iowa, there has been erected recently a bank and office building in which the owners and the citizens of Davenport take much pride.

A study of the banking floor shows that ample provision has been made to accommodate every function of a modern bank in a progressive community. When it was planned the owners realized that there would be a large demand for safe deposit boxes, and, consequently a large number of booths.

Provision usually is made for one booth to every 300 safe deposit boxes, in order to accommodate patrons who have stated times to look over the contents of their boxes. While the present capacity in the main vault is large enough to take care of present requirements many additional boxes can be added in the vaults below. The lower vaults have been provided with this probable increase in mind.

The construction throughout is of steel and concrete, fireproofed in a manner to comply with the most exacting requirements of the fire underwriters. The finish of the banking floor may be appreciated

Temple and Burrows
Davenport, Iowa

Hoggson Brothers
New York, N. Y.

Associated Architects

Hoggson Brothers Builder

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View of the bank floor looking from the elevator lobby toward the vestibule at the main entrance

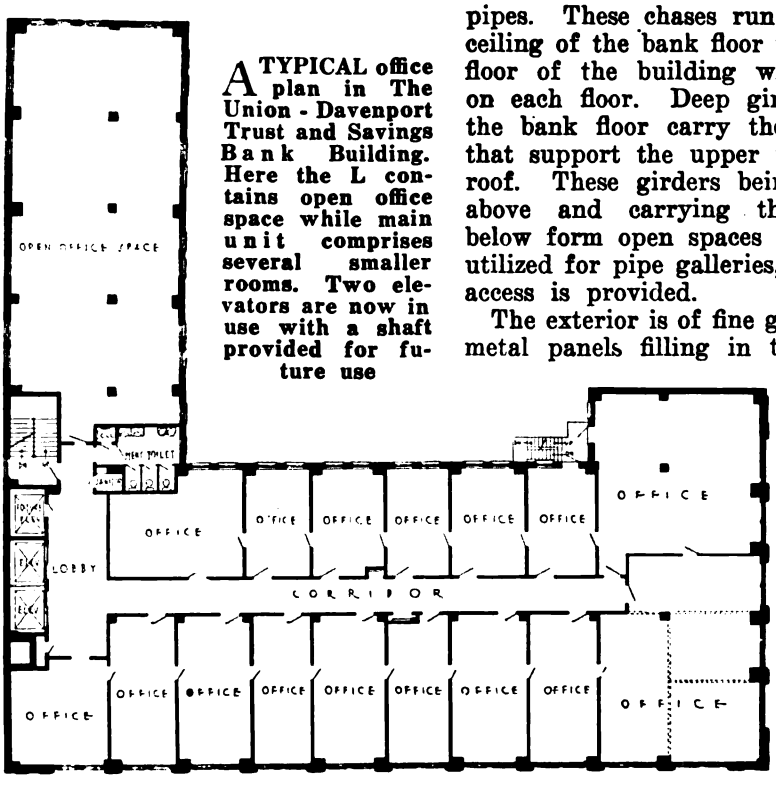
from the fine view presented here. The finish in the office floors above is in keeping with the bank floor.

On either side of the main hall on the office floor is a deep recess, with doors, which recess is in fact a chase for conduits and plumbing pipes. These chases run from the ceiling of the bank floor to the top floor of the building with access on each floor. Deep girders over the bank floor carry the columns that support the upper floors and roof. These girders being floored above and carrying the ceiling below form open spaces which are utilized for pipe galleries, to which access is provided.

The exterior is of fine gray stone, metal panels filling in the spaces between windows at the floor levels. The long vertical columns thus formed give an impression of height and increase the apparent size of the building. The architectural appearance has been favorably commented on and reflects credit upon the architects. A liberal number of windows of large size give maximum light and accentuate the columnar effect between windows.

The arrangement of the offices in the floors above gives light from two sides with excellent ventilation. There is a fire-resisting stairway in the front near the elevators and an outside stair fire-escape in the rear. Access to the latter is through offices, but in case the large office space should be divided into several offices an entry hall may be constructed to give access to the fire escape.

In accenting the building's height, architects and builders have followed a trend that is finding popularity in this country today. Partly through the force of zoning laws, prohibiting structures that tend to darken streets and partly through municipal desire for large buildings, this type is appearing more and more. The result is a monument to the city's prosperity and yet not one that tends to "shut in" the street below. This is an excellent example of the modern school of office building architecture

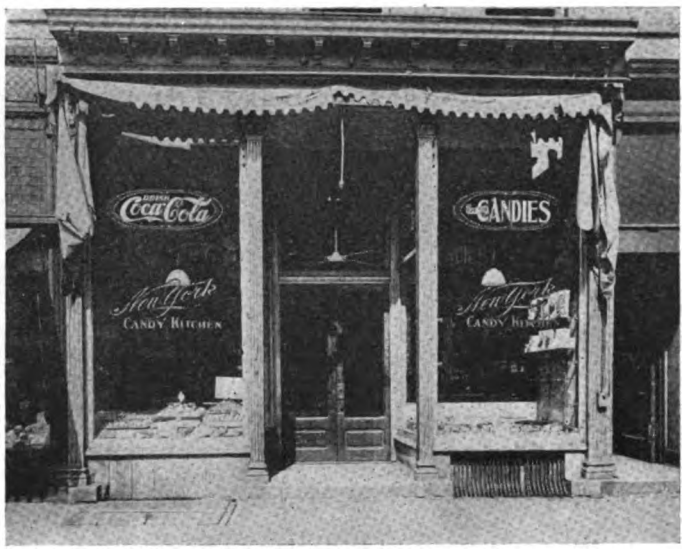


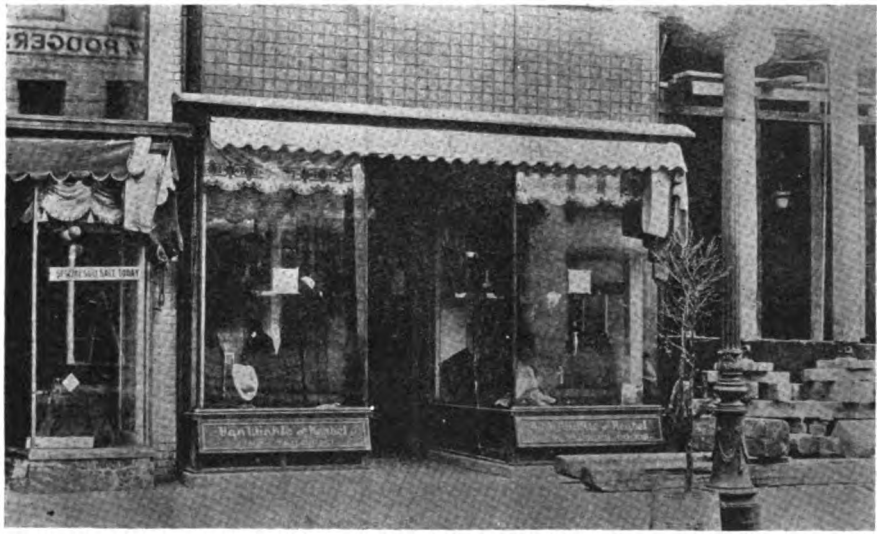
A TYPICAL office plan in The Union - Davenport Trust and Savings Bank Building. Here the L contains open office space while main unit comprises several smaller rooms. Two elevators are now in use with a shaft provided for future use

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When Magic *Visits* MAIN St.

Dingy Old Shop Fronts Disappear for Good





Photos Courtesy Kawneer Co.

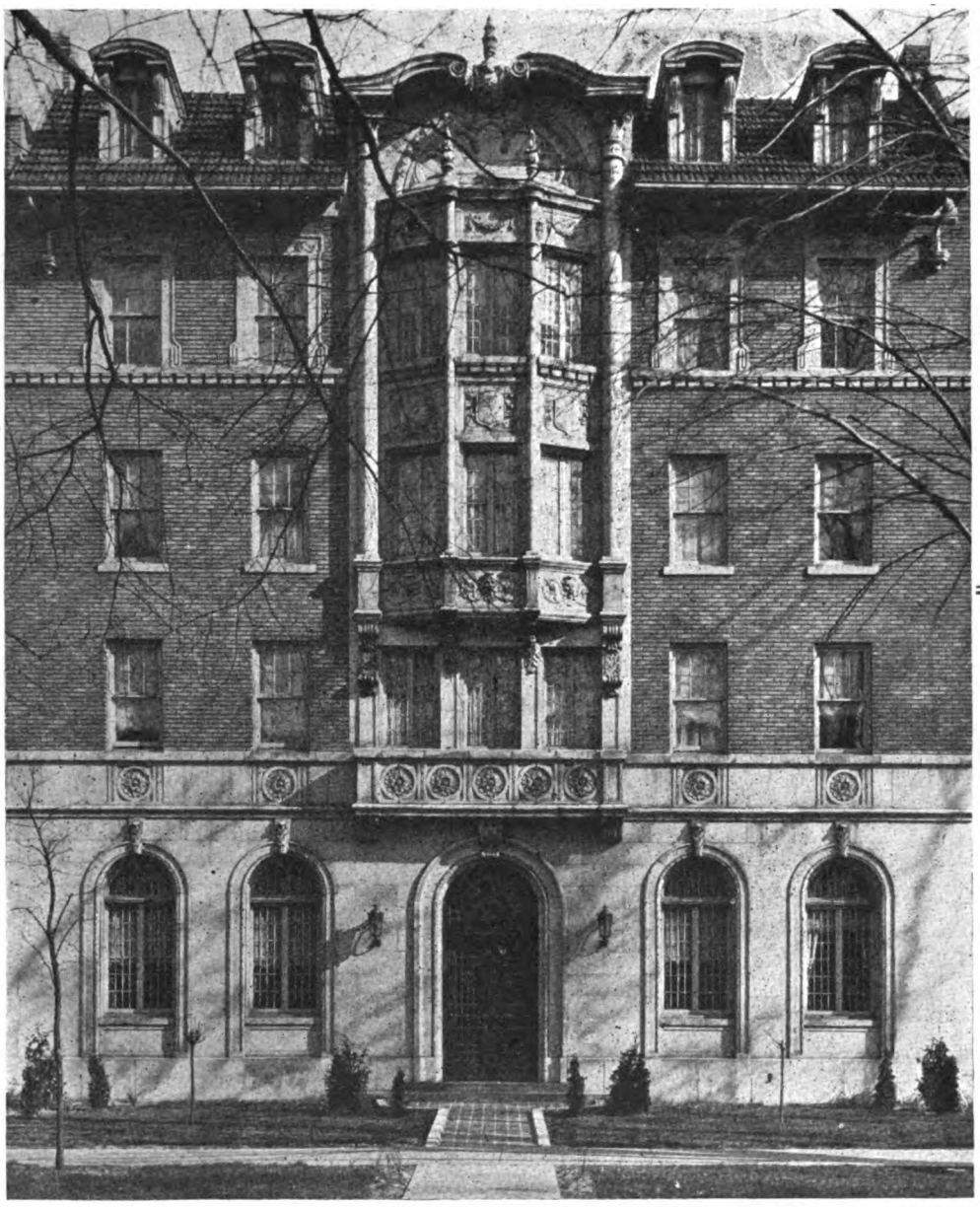
TAKE a stroll down Main St., Anytown, U. S. A., and notice the transition that is going on before your eyes. The trend is toward bright, neat store fronts and side by side we come upon the old and the new.

To strike at the bottom of this "sprucing up" of Main St., one must take into consideration the aims of dealer, store front manufacturer, and builder and the part that each plays. The dealer, of course, welcomes any step to call attention to his products. And, the makers of modern store fronts are interested in improving as much of Main St. as they can reach. It remains then, for the local builder, to educate the merchant to the value of better looking shop fronts.

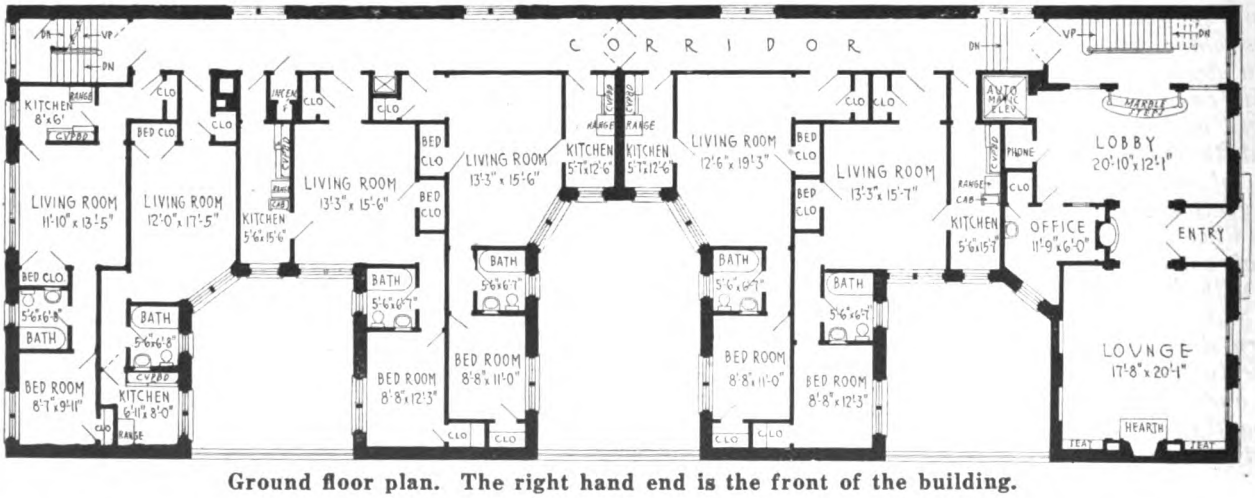
THE candy store shown at the top is equipped with the old type of show window that is fast passing out of vogue. Above is shown a shop window of a less older type, but still a decidedly unattractive one. The goods are well arranged within but the whole lacks much of attention-getting qualities. To the left is illustrated the result of combining this store with the one next door and installing a modern store front. It is cheerful and compelling and stands out dominantly over its competitor next door



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The Milaflores Apartments, Detroit, Mich



Ground floor plan. The right hand end is the front of the building.

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Many Comforts In These Small Apartments

Harry J. Pelavin
Builder
J. R. Weinberg
Architect

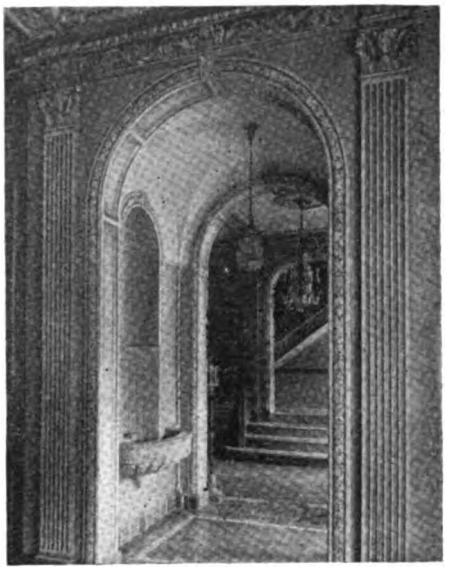
WHAT to do with the necessary corridor in an apartment house on a narrow lot is one of the major problems of a designer. The solution in the case of the apartment house here illustrated, is a happy one.

The tenant has what the American tenant so much prizes, a home that looks well from the street and with an entrance which gives an impress of well being and comfort. The effect experienced when in the centrally located entry and looking to either side into the handsome lobby and luxurious lounge cannot but be favorable. Nothing like it can be had when looking down a conventionally located corridor running through the center of a building.

From this spacious and handsomely decorated entrance flanked on one side by a large fire place in the lobby and on the other side by marble stairs, one has the choice of the stairway or of the automatic elevator to go to the upper floors. The corridor along one side of the building leads to all the apartments and there are no corners to turn.

The width of the lot is 50 ft. and the length is 136 ft. 9 in. Because of the side corridor all the rooms receive light and air through spacious courts. Had the corridor been elsewhere these courts would have been mere shafts.

No comfort deemed to be essential by the American tenant has been omitted. No unsightly garbage cans will offend the eyes of passers-by. An incinerator has been supplied with an opening on each floor so that all wastes automatically are disposed of by the simple process of dropping down a shaft.



VIEW from lounge through entry to the lobby. The automatic elevator is to the left of the marble stairs seen in the background



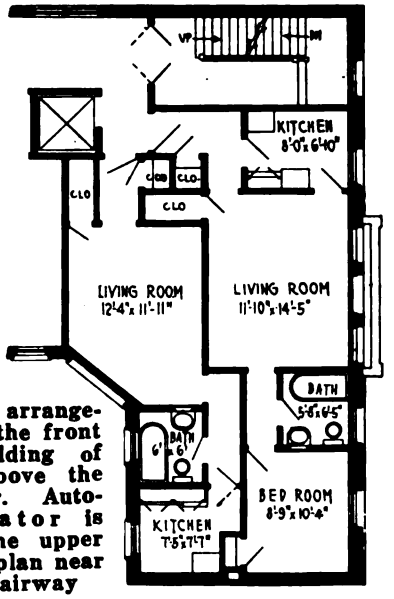
The rear end of this well arranged apartment house that is built on a long and narrow inside lot



VIEW from lobby through entry to the lounge. A view on the ground floor of this example of a typical modern American apartment house

The incinerator makes it unnecessary to have a dumb waiter in each apartment. This saves space which is better utilized by throwing it into the living rooms and bed rooms. A common dumb waiter serves the needs of all the tenants. Signals are arranged to sound in each apartment when anything is sent up. The daily gathering around the dumb waiter when the ice is delivered should serve in place of the gathering of neighbors around the old fashioned village pump. It will serve to promote a community feeling. Co-tenants will much sooner become acquainted.

The rooms are well arranged and of comfortable dimensions. They receive all the light and air that may be had with a building on a narrow lot. The problems connected with the site have been solved happily. This plan is a refreshing contrast with those of a generation ago.

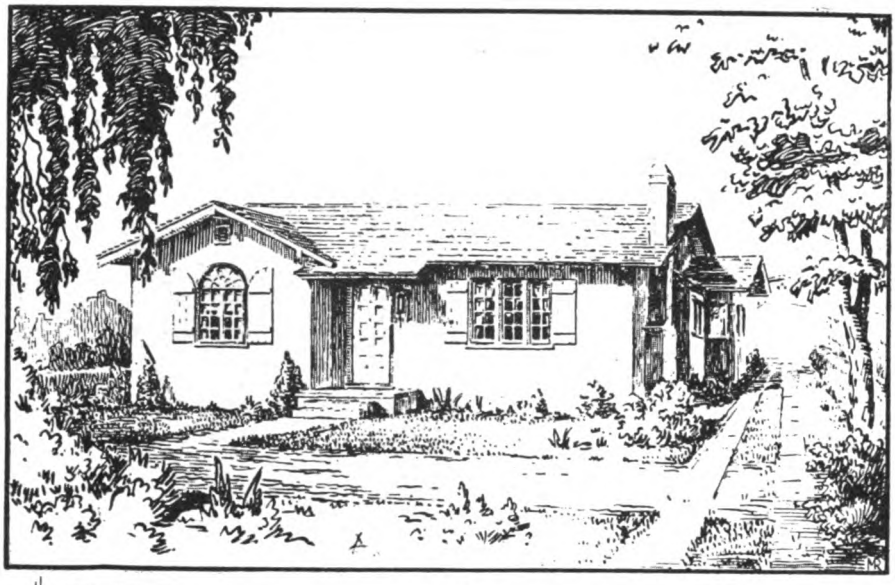


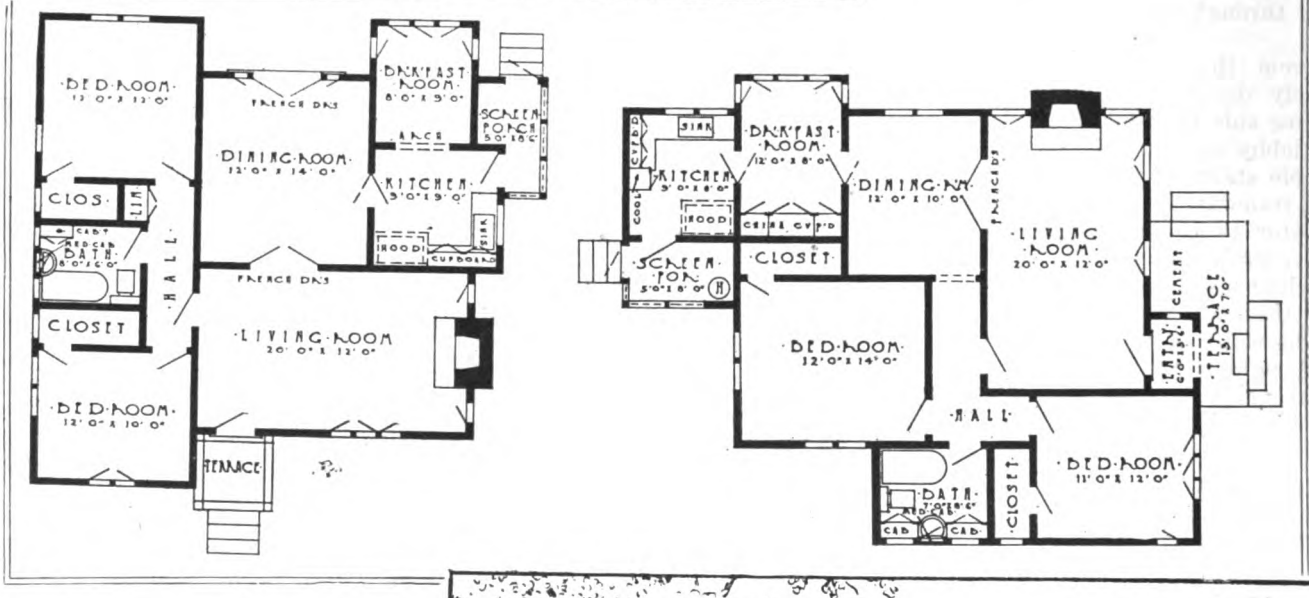
TYPICAL arrangement in the front end of building of all floors above the ground floor. Automatic elevator is shown in the upper left hand of plan near head of stairway

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Two Bungalow Homes

F. E. Young
Architect





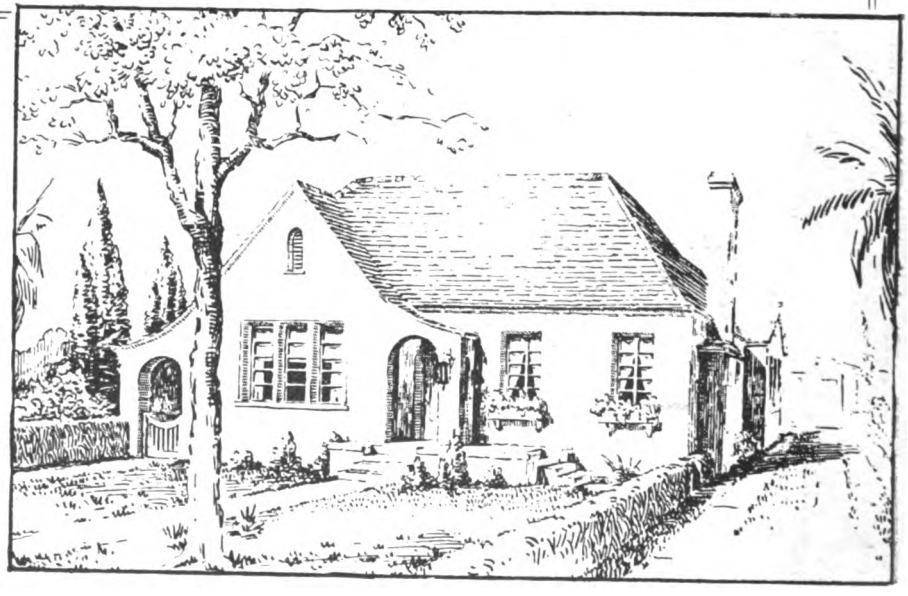
THE designing of small homes of a type that will appeal to the critical purchaser demands much attention to special features, both exterior and interior. In providing for these, however, consideration must be given to the cost, or it will soar beyond the means of the average home owner.

We present here two happy solutions of the small house problem, from designs prepared by F. E. Young, architect, of Los Angeles. Above appears a six room house, well laid out for the lot that affords window space on all four sides.

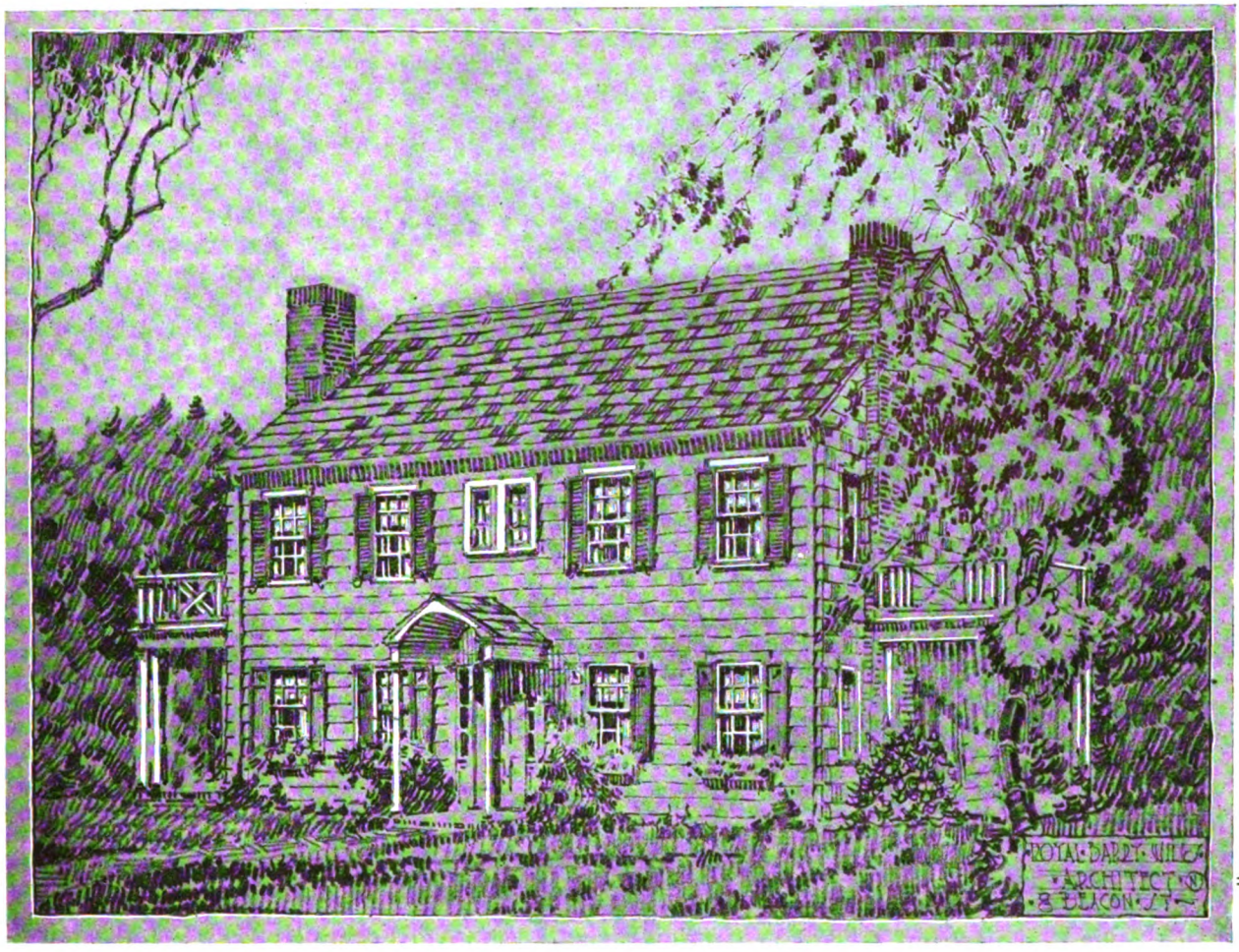
A living room of ample proportions communicates to the dining room, kitchen and breakfast room on one side, and separated from this portion of the house by an interior hall are the bedrooms and bath. A feature of the dining room is the arrangement of French doors leading to the dining porch and the rear garden.

The other house shown here is more commodious, although the number of rooms is the same. A vestibule leads from the cement terrace into the living room. The breakfast room lies between the kitchen and dining room, with the bedrooms to one side.

An attractive feature of this design is the arched entrance balanced by an arched entrance gate at the side leading to the rear.



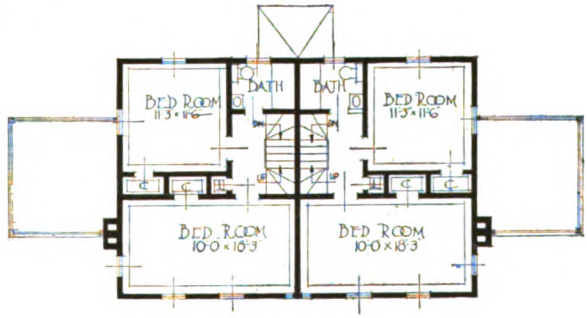
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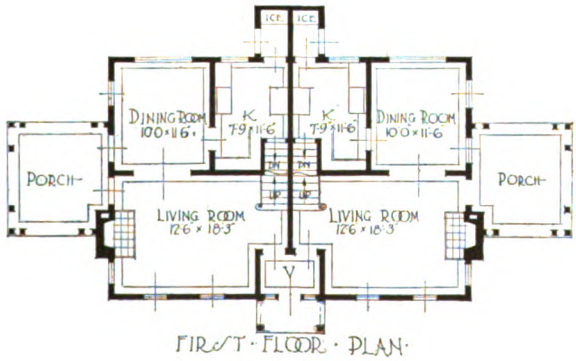
Welcome! the Duplex Colonial

THIS house, while having an exterior which is in accord with the best New England Colonial precedent, at the same time provides for two families within.

The exterior is of shingles stained white with roof shingles of slate or wood. The plan shows an extremely economical and convenient layout with a good size living room and open fireplace, an open porch, dining room and a kitchen which, though small, is conveniently arranged.



SECOND FLOOR PLAN



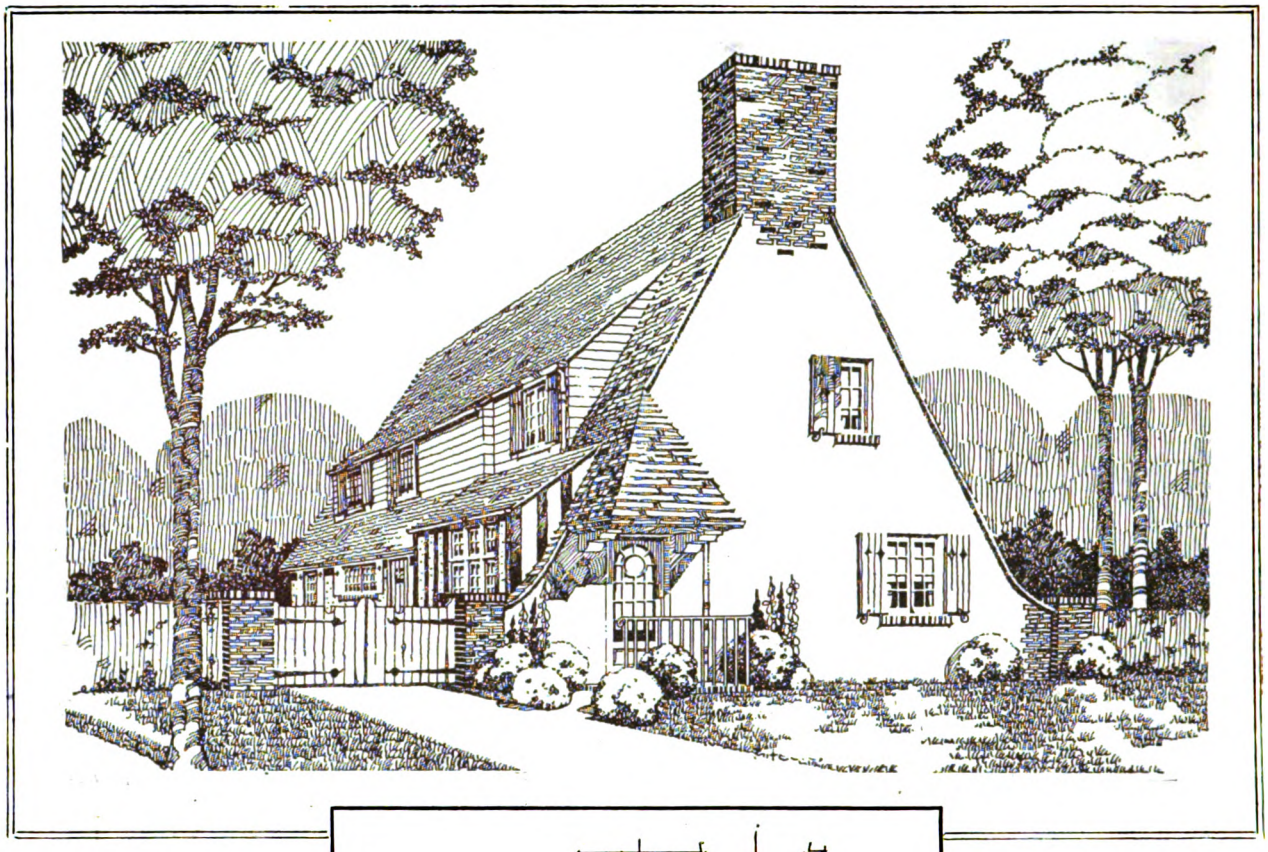
FIRST FLOOR PLAN

The second floor provides for one large bed room and one medium size bed room, besides bath and convenient closet space. On the third floor there is room for one additional bed room in each apartment.

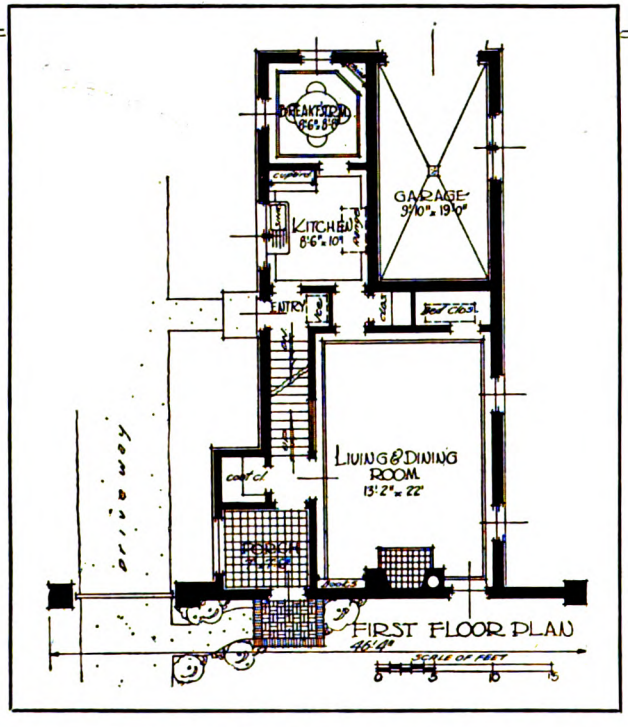
This is a plan which can be very conveniently and easily built from a point of view of construction, and at the same time providing a two family house at very little more than the cost of a good single house.

The designer of this unusual and trig little duplex is Royal Barry Wills of Boston, Mass.

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The HOME *of* Your Dreams



Designed Specially for Building Age and National Builder *by* *R. C. Hunter & Brother Architects*

WHO cannot conjure up the home ideal that some day will be built to gratify every demand for comfort and beauty? Perhaps it is a large, magnificent mansion where splendor is the keynote. Again, it may be a little cottage where compactness and homey charm are foremost. One's first home at least will no doubt conform more aptly to these latter limits.

That is the reason that this design is termed "The Home of Your Dreams." For the small family now occupying an apartment or a flat, this charming little conception is particularly adapted. It is moderately priced, easily furnished, and quite sufficiently commodious for everyday demands.

Moreover, it is able to hold its own even were it flanked on either side by huge pretentious dwellings representing several times its capital investment.

First demanding further attention is a trig, artistic entrance protected by its own roof—an integral part, however, of the rest. The entire roof is of slate, contrasting pleasantly with stucco walls and brick surfaces offered by chimney and driveway posts.

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More than casual scrutiny is demanded by this roof treatment. Notice how the surface is resolved into masses; first, to provide the second floor with dormers, then to give sun porch an independent covering, and, of course, to form the little roof crowning the front entrance.

A signal feature is an attached garage opening to the rear. Metal lath on walls and ceiling, covered with gypsum plaster, make this fire-resistant. And as no opening to the house direct is needed, double hung steel sash, glazed with wire glass, are the only other precautions that need be taken.

A driveway is artistically worked in to give easy access to the garage. Wooden gates of massive construction and hung with large, wrought hinges are supported on sturdy brick piers. This driveway entrance is mainly ornamental while further adornment is found in a wrought iron railing traversing the front entrance. Blinds are used throughout, fitting in harmoniously with steel, cottage-type casements.

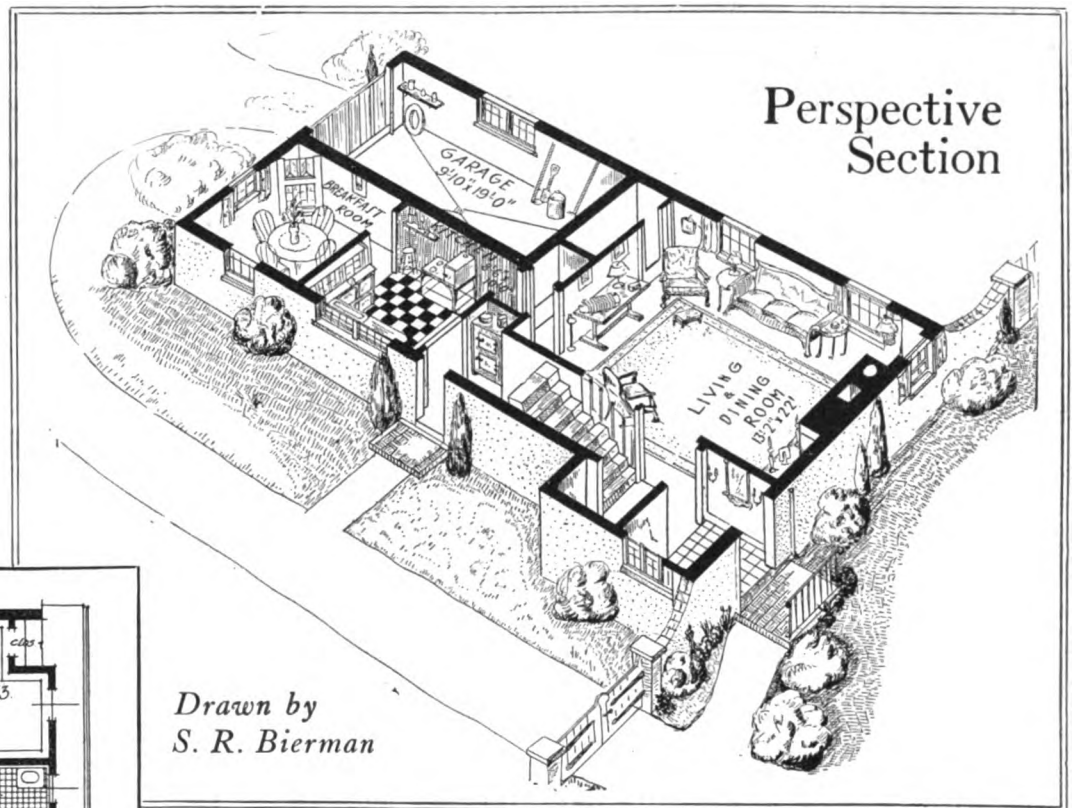
BLUE Print Plans and Specifications with Models of many Beautiful Homes of Moderate Cost can be supplied at a nominal price by Building Age and National Builder, 239 West 39th St., New York.

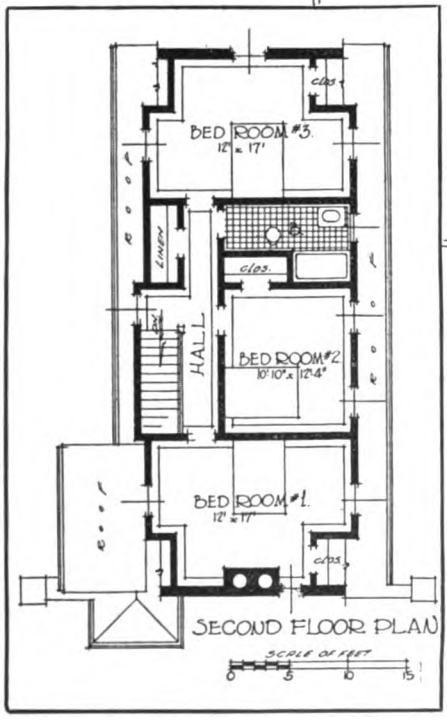
Then, the interested home-seeker goes to the kitchen and further back to the breakfast room, both of these models of cheeriness. There is space for every necessary item of equipment yet both are thoroughly compact. In the breakfast room, the small family will find adequate dining facilities for ordinary purposes using a living room only for more elaborate occasions.

The second floor is reached by stairs mounting from front hall and terminating in a long narrow hall. A bedroom is disposed at either end while a third bedroom and a bath open from the side. Opposite is a linen closet.

A recessed tub gives added size to this tiled bath. In designing the small spaced bathroom this arrangement is becoming more and more popular. It insures the use of every available foot of room and yet provides all working space necessary.

HERE is shown the complete first floor interior of the Dream Home — quarters as livable and as roomy as could be desired for the small family. In the rear, a breakfast room provides ample dining space for everyday requirements while in a combination living and dining room further facilities are found. No direct communication with the garage is had as this feature is a unit in itself.





Having taken up this home ideal from the standpoint of the passer-by, it is time that the most important feaure of all—the interior—be given consideration.

From a tiny sun porch that serves also as reception hall, one enters a stair hall and to the right a living room. Or rather a combined living and dining room for this fills the place of both. Three windows light this spacious room and a fireplace marks it as of first importance. To the rear is a bed closet should there be need for further sleeping accommodations.

Landscaping this model home resolves itself into two parts. The front lawn had best be planted so that the property presents a good appearance from the street. The grounds back of driveway entrance can be cultivated as owner sees fit; there is provided an excellent chance for planting flowers and shrubs. The estimated cost of this charming little home is $11,500.

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Striking Out for Something Different In Home Design

By J. Harold Hawkins

RIGHT here is the spot I've been looking for!" Sc spoke Mrs. Margaret W. Doan a year or so ago. She stood on the first gentle slope of the foothills of proud old San Miguel, one of southern California's most picturesque mountains. Mrs. Doan's face was turned exuberantly toward the Pacific, whose expanse of blue-green was jaggedly broken by the Coronado Islands wavering in the distant purple. To the south rose the table mountains of Old Mexico, their tops cleaved square as if some giant had swung his terrible knife across their necks.

As sure of her location as Mrs. Doan was, just so certain was she of the house she wanted. Climate and *locale* influenced her plans to some extent. Too, the size and description of the family that expected to occupy the home tended to shape the floor plan for individual needs and tastes.

The setting seemed to dictate a design of Spanish Mission tendency. Moreover, if English were used in pure reproduction incongruity would mar its intrinsic architectural beauty. An adaptation seemed most advisable and just how cleverly all desirable factors were worked in is apparent in the illustrations shown. It is neither decidedly Spanish nor decidedly English—as though some British settler had transplanted to this country of mystic charm the architecture of his homeland.

The front of the Doan house is on the road level. Like a Mexican hacienda, high casement windows, and a gate that gives way into an entrance enclosure, preserve an atmosphere of guarded privacy. One can almost imagine the clatter of unshod hoofs and clinking sabers approaching along the highway.

Brick paving is laid in artistic fashion from the front gate to the front door. This front door opens into a loggia, or perhaps more properly described as a sun-room. The loggia wall opposite the main door has two pairs of French doors and a single French door, all opening upon an inside terrace or patio paved similarly to the front walk. In these two features, a loggia and brick terrace, further indication of the melding of two architectural schools is found. While the typical Spanish patio would not have found favor in this English home, much the same advantage is found in a connecting sun-room and paved porch.

To the left from the front entrance, through a pair of French doors, one enters the large living room. The plaster on the walls of this room is finished in a carelessly rough manner. Iron electric light fixtures, with a touch of the unusual, add decorative charm. An interestingly built fireplace divides one long side of the room. A bay-window, with a wide window-seat and book shelves, takes up the far end of the room. Out of the wall opposite the fireplace there opens a pair of French doors that lead to the brick terrace.

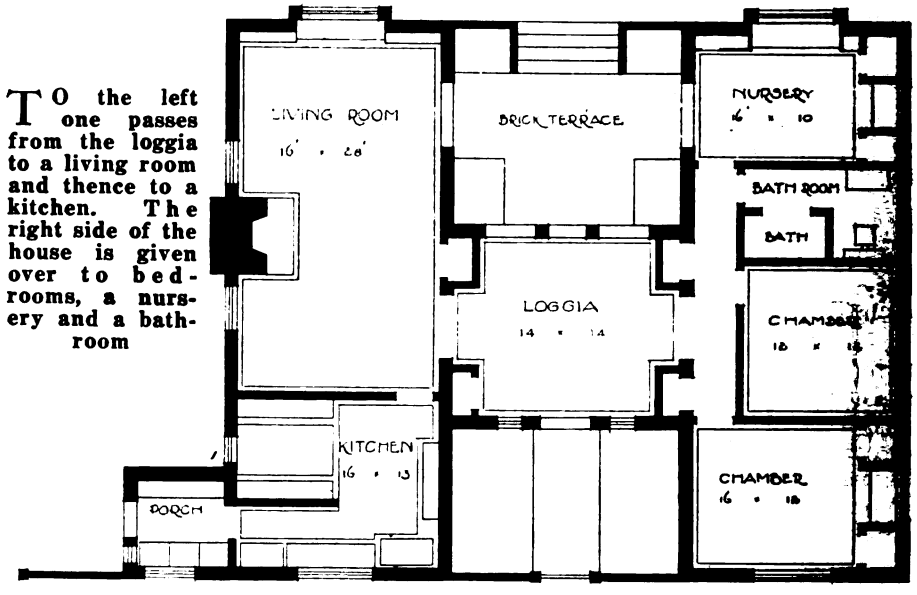
THE unusual feature in this floor plan is the placing of kitchen in the front of the house. This arrangement gives to the house an enviable characteristic, for there is no angle of exterior view at which the typical backyard scene is had.

Mark Twain's noted house in Hartford, Conn., embodied in this design much the same kitchen arrangement. It was so disposed at his direction that the servants might have full view of the street without the necessity of walking through the living room to the front of the house. Mrs. Doan's reason, however, for allocating the kitchen in this manner was an entirely different one from that of the famous humorist. She wished to avoid provisions for the usual backyard arrangement. The "rear entrance" is really at the front, through a gate not unlike that of the main entrance. In one corner of the kitchen is built an exceptionally large breakfast nook. One end of the living room is adjacent to the kitchen and provides ample space for a round table at which guests may gather to feast by the open fire.

THE entire right wing of the house is given over to three sleeping chambers and a bath room. Numerous small closets and wide window-seats are in both the front chamber and the nursery. In the latter room are many and varied closets, drawers and shelves —prime requisites for the stowing away of a myriad of infant garments and accessories. Also, the easy access to the terrace and the grounds from various parts of the house is a most convenient feature.

The exterior of this Chula Vista house is stucco. The color is light buff. All the windows are of the high casement type that insure a complete and restful privacy. The chimney is done in red face-brick with white mortar. The roof is of prepared shingles in dark garnet and slate color. The half-timber work and other outside trim is painted.

Needless to comment, the builder, Mrs. W. J. Wentworth, co-operating with the designer-owner, Mrs. Doan, succeeded in producing a most pleasing and well balanced house along somewhat original lines.



TO the left one passes from the loggia to a living room and thence to a kitchen. The right side of the house is given over to bedrooms, a nursery and a bathroom

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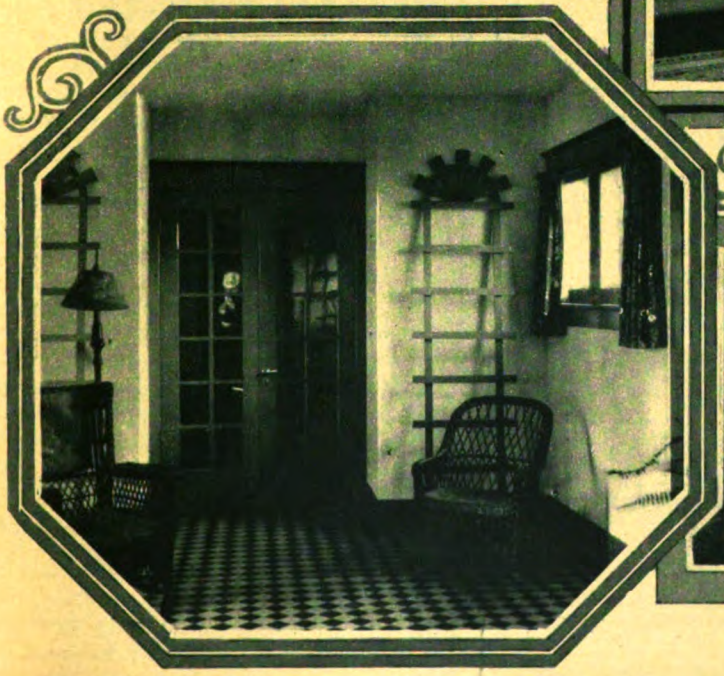


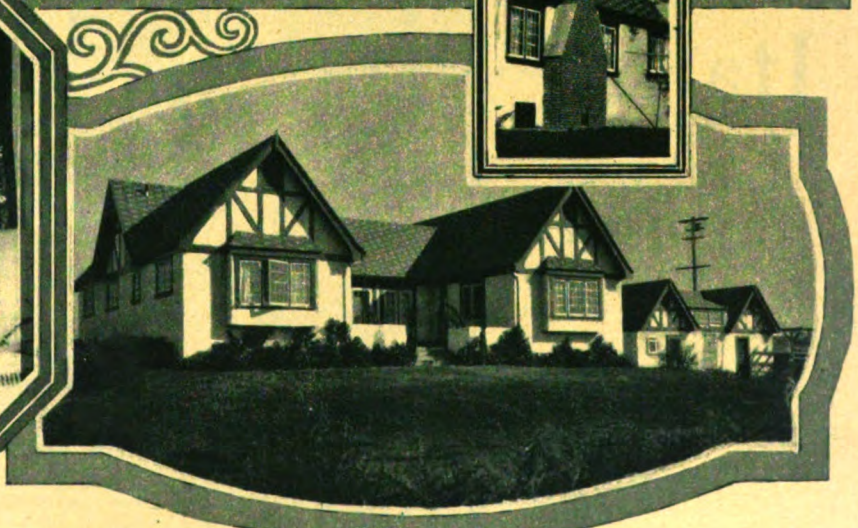
The English Trend In the Southland



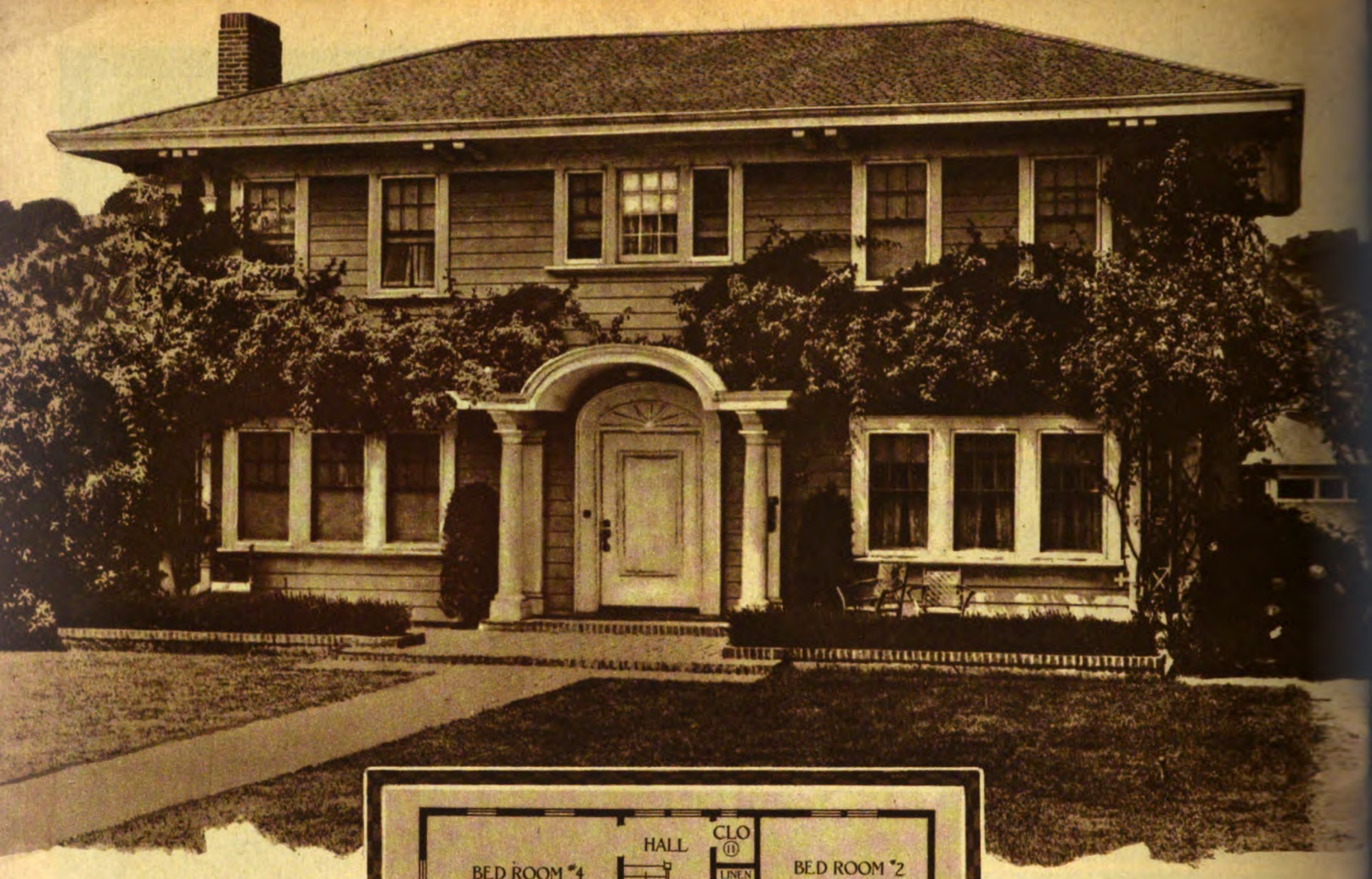
TO the English, our architecture owes its leaning toward the quaint. In the Spanish, we find a softness, a cool complaisance, that accounts for its tremendous vogue in warmer climes. Shown here is a house that is a true blending of characteristics of two nations. Located as it is in the heart of the San Miguel country of California, its treatment is nevertheless English. Mr. W. J. Wentworth of Los Angeles, is the builder. Mrs. Margaret W. Doan, owner.



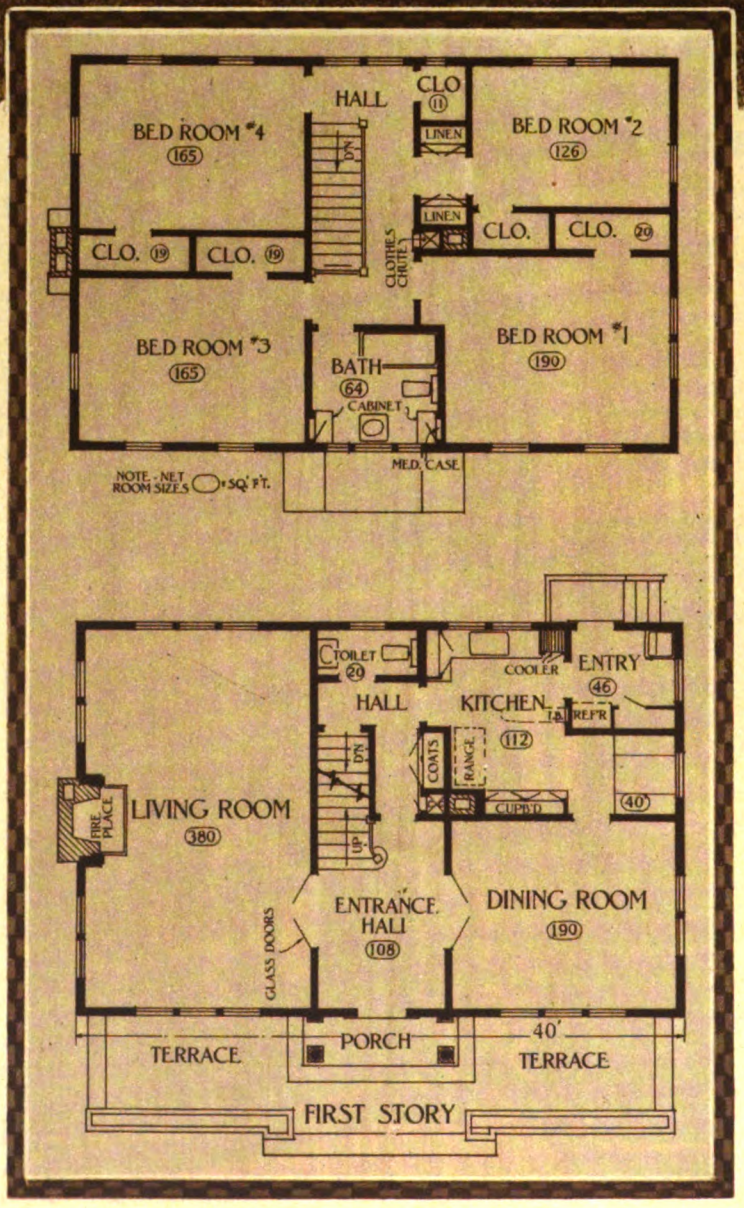




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From *the* Amiable Italian

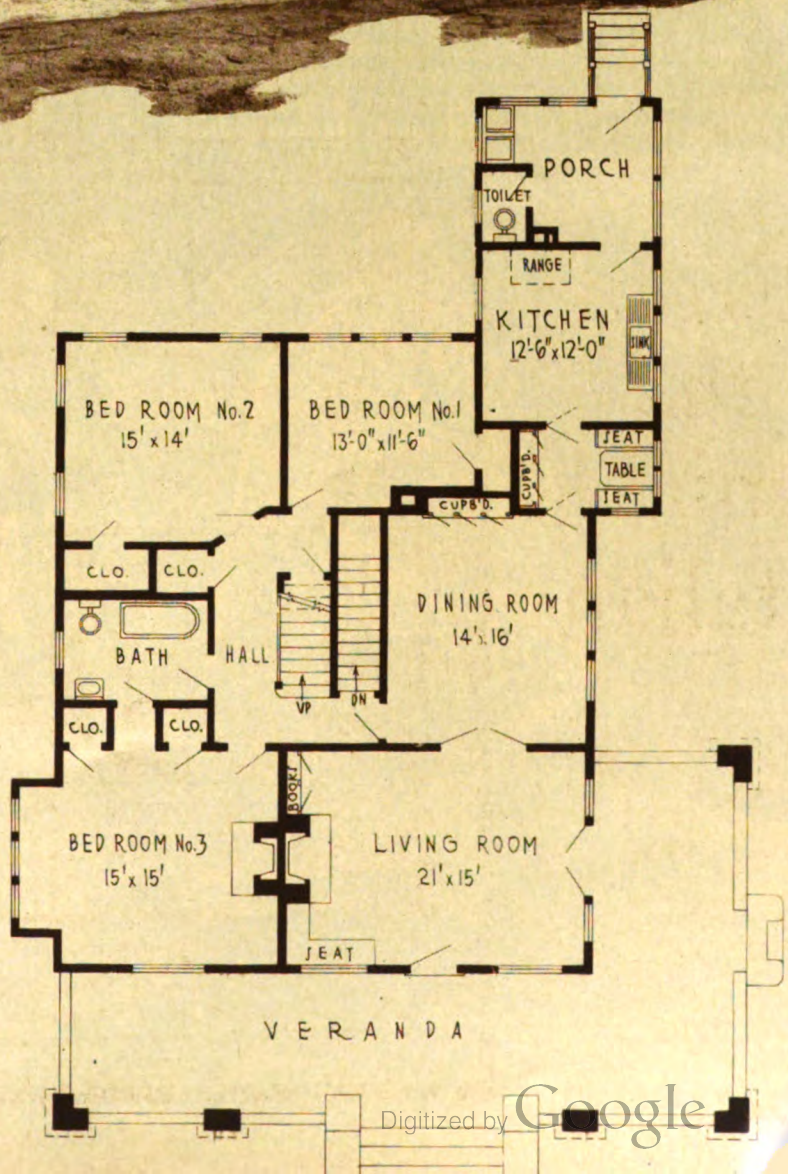


FIRST engaging attention for the tracery of foliage encircling it, this home stands out as an excellent copy of an old Italian villa. Its projecting eaves, typically Italian roof lines, and superb front entrance are worth much more than a passing glance. In the latter detail particularly, has the architect carried out extremely well the dictates of this period. Of course, the plan of such a home affords its designer excellent opportunity to provide for comfort and convenience in laying out the interior. Foremost in room arrangement is the generously proportioned living room with a fireplace in accord. Triple windows are disposed front and rear, the former looking out on terraced porches. In every interior detail the same regard for commodious and homey requirements has been exercised as plans will show. E. W. Stillwell, of Los Angeles, architect.

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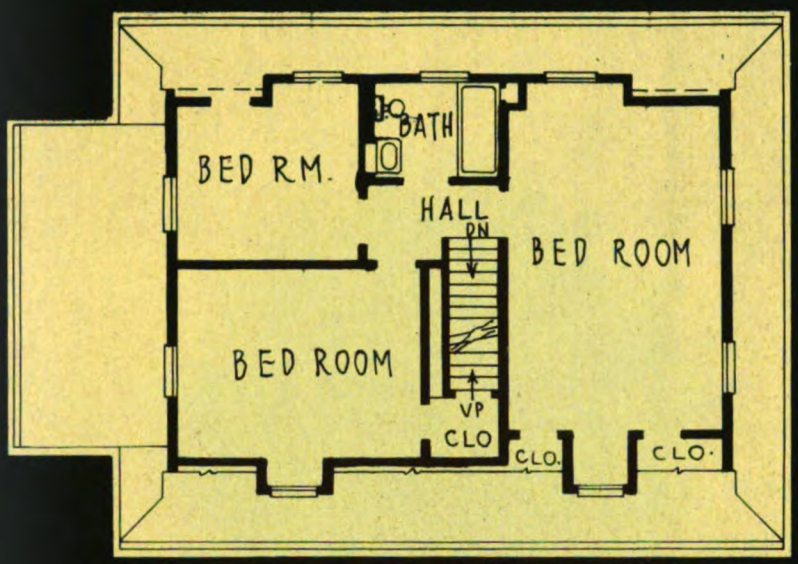
Under Southern Skies

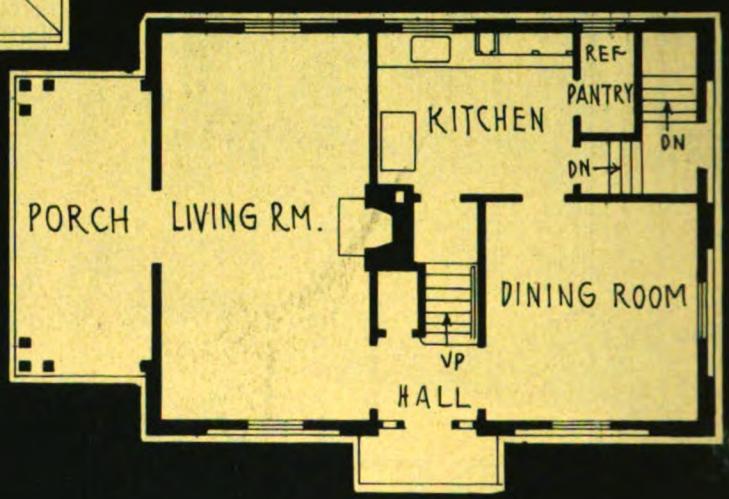


TORN as America is, between the tendency to borrow from the beauties of foreign precedent and the pride in founding a definite school of its own, it is gratifying to come upon a successful contribution to this latter cause. Here is a Southern bungalow of American tradition. Amid a tropical setting it harmonizes admirably, providing for its owners a home of good taste and comfortable proportions. Sitting on the broad, cool veranda one looks out upon the picturesque St. Johns River winding its way past this house—in the Palatka section of Florida. Massive brick piers support the projecting roofs. Mr. J. Q. Tilghman is the owner and Mark and Shettal of Jacksonville the architects

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Grace Dominates In This Dutch Colonial

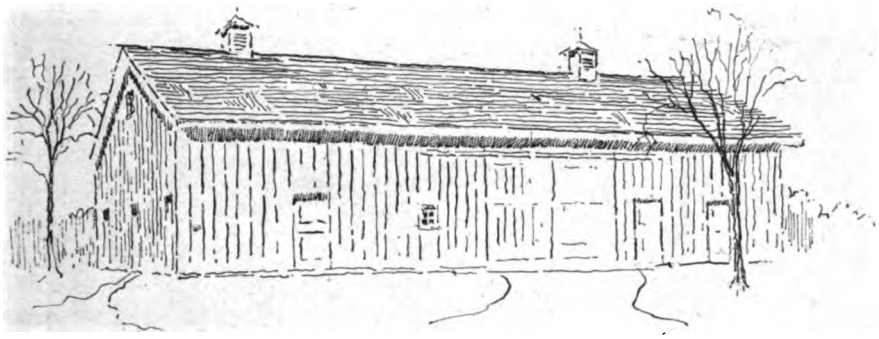




THE Dutch Colonial finds favor wherever architectural grace is held in recognition. Its earth-hugging qualities give to it a certain charm, not unlike the primitive beauty of frontier cabins. This interesting residence is at its best partly because a single medium forms roof and gables, namely, stained shingles. Then, a wide hood adds a strong, horizontal line—one of grace and balance. The combination of brick piers and stucco window panels is unusual. The success of this architectural venture is evident. Within, the arrangement offers everything to be desired in a home. The Architects' Small House Service Bureau, Lake Division, Indianapolis, are the ones to be accredited.



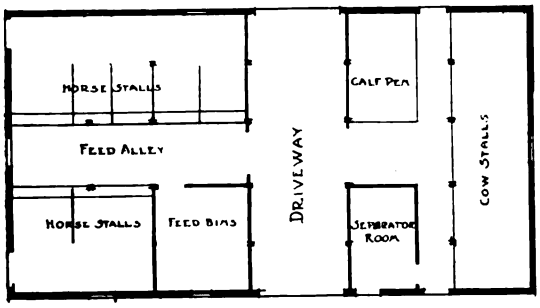
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Remodeling *the Old* BARN

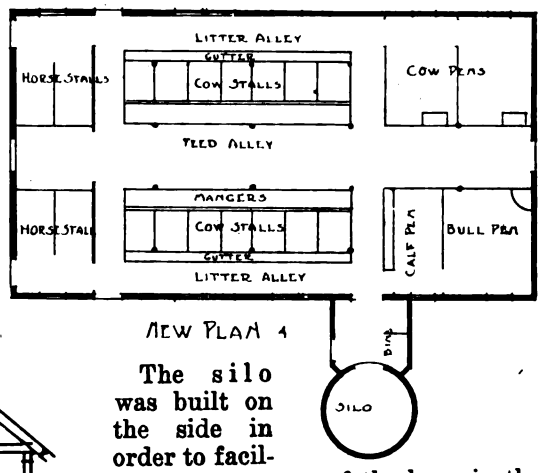
By E. A. Martini

HOW many farmers are there in this country today whose barns are constructed in a substantial fashion of fifty years ago, yet are entirely inadequate for their present uses? In many such cases it is possible to make use of the fine old construction at a small cost.



OLD PLAN

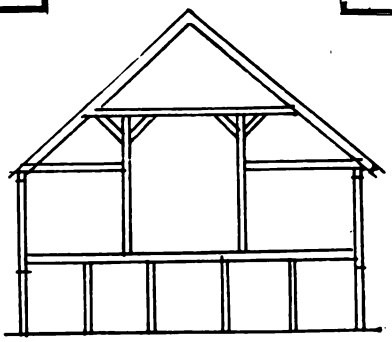
CONTRASTING the old plan (left) with the new (right). Separator room was moved to a new dairy building and many of the horse stalls were eliminated. This left space for extra cow stalls



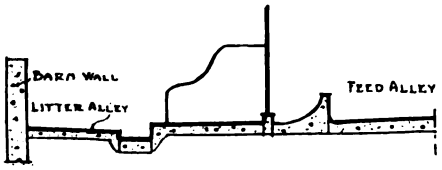
NEW PLAN

Illustrated is the floor plan of a typical barn of this type. In another picture is shown the cross section with a first floor ceiling so low that one could barely pass under the beams. Wood posts supporting the frame work had commenced to rot and the structure was off plumb.

The first work consisted of jacking the building up about three feet above its present level. A 10″ trench was then dug and filled with concrete from the frost line to the grade level. Concrete blocks completed the



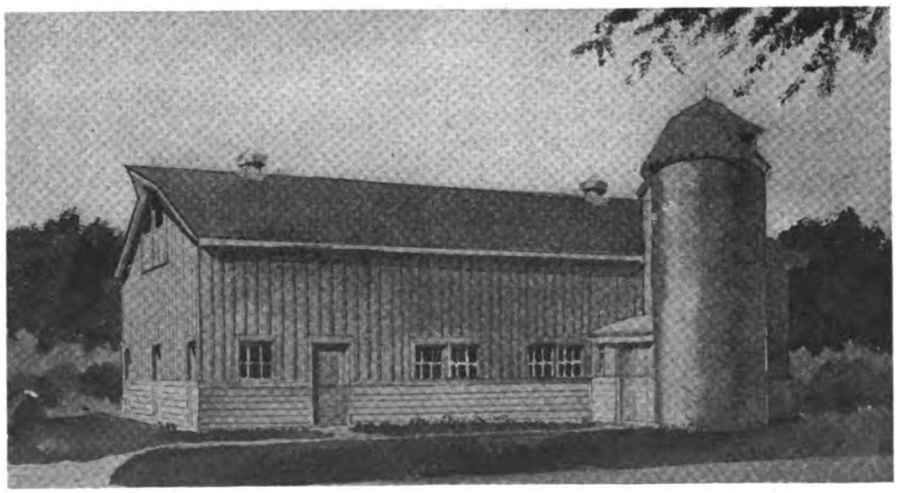
In the old barn the first floor ceiling was so low one could barely pass beneath. This was rectified in new structure



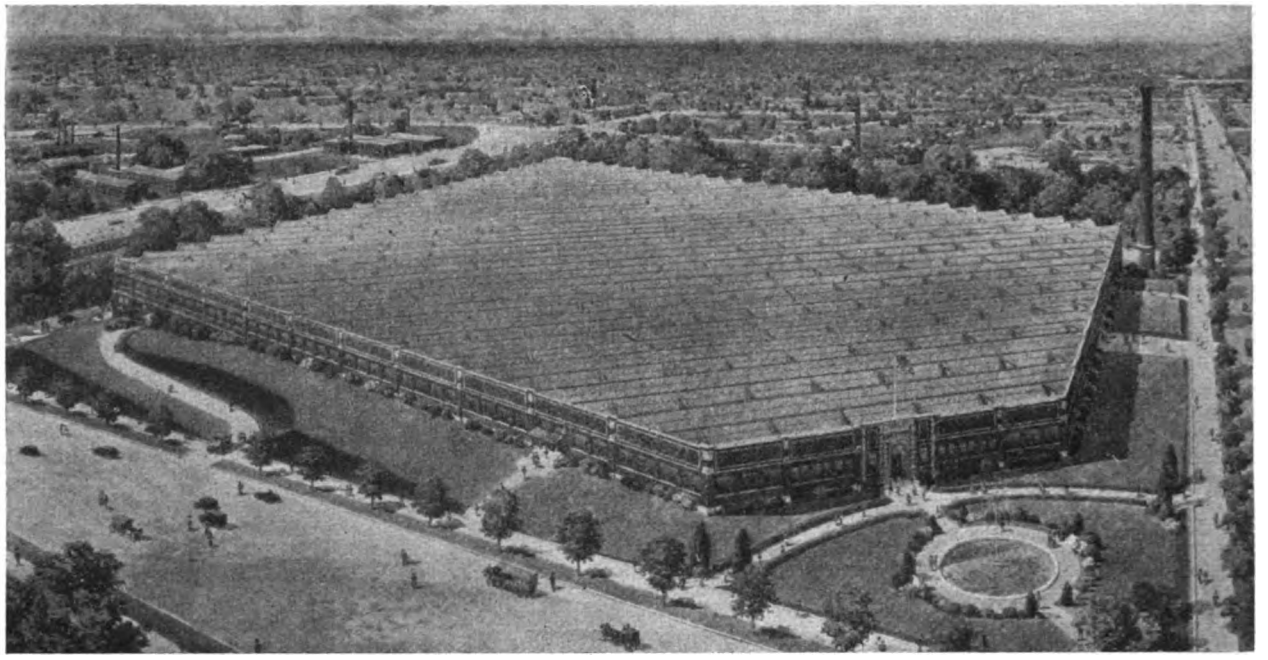
wall up to the old wooden sill. To offset any possibility of the barns bulging out in the center, ¾x16″ iron anchor bolts were imbedded at intervals in the wall and bolted to the outside wood sill.

Then the first floor was laid out according to the new plan. As the space used for cow barn in the old building was too crowded, it was necessary to provide new accommodations. A separator room was moved to the new dairy house, and space was taken from the old feed bins. Fortunately, the three roof trusses in this barn were so constructed that they interfered only slightly with a clearway for a hay carrier. By removing center driveway, the entire first floor was left clear for stalls, and, as only small space was required for horses, ample accommodations were provided for the cows. Floors for all cow stalls were laid with concrete curbs, the centers of which were filled with 4″ of cork brick laid in concrete.

The silo was built on the side in order to facilitate enlargement of the barn in the future. A small feed room between silo and barn served for grain bins, while a litter carrier track in the two outside alleys made it very convenient to clean out the barn. A gutter was connected with the manure pit by means of a tile drain with a bell trap at opening.



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A Fourteen Acre Radio Factory

THOSE who have followed the almost incredible growth in popularity of the radio must wonder what the manufacturers have been doing to meet the staggering demands for apparatus. Displayed here is one of the reasons why the radio has found its place as the universal medium of entertainment in American homelife.

This new plant of the Atwater Kent Manufacturing Company occupies approximately fourteen acres on the outskirts of Philadelphia, Pa. It is unique in that both design and construction have followed one important dictate—daylight illumination free from glare and shadows.

Roughly, these principles have been adhered to by erecting a one-story building of "Super-Span" saw-tooth skylight roof construction. This type has special provision for obtaining freedom from interference by building columns and for that reason best adapted to factory construction.

All designing and supervising of construction were carried on by the Ballinger Company, Architects and Engineers, Philadelphia and New York.

Told by W. R. Fogg

The building was designed to be erected in sections. The original or western section, comprising 65,892 square feet, was completed in 1923. The central section which includes main offices has a total area of 267,800 square feet and the eastern section 148,758 square feet. Since the completion of these, an addition, 500 feet by 200 feet has gone up, bringing the total close to 600,000 square feet of enclosed space.

At the east end of the lot where ground slopes away, a ground story has been provided. And under the rear of the western section is a boiler room.

Throughout the plant, exterior walls are of rough texture red brick with granite base, limestone trimmings and terra cotta coping.

As previously mentioned, all sections are equipped with special saw-tooth skylight roof construction. To obtain maximum daylight illumination without glare or shadow, the saw teeth instead of being parallel with the lot have been set at an angle of approximately 45 degrees with side walls. In this way the saw teeth are faced directly north.

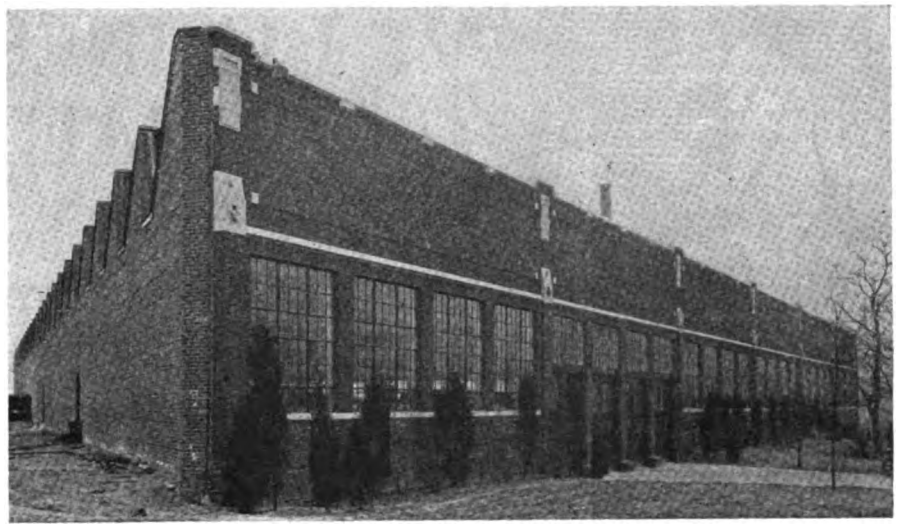
By using the construction known



THIS interior view shows how "Super-Span" saw-tooth skylight construction has eliminated obstructing columns to a great extent. The result of this is greater clear space

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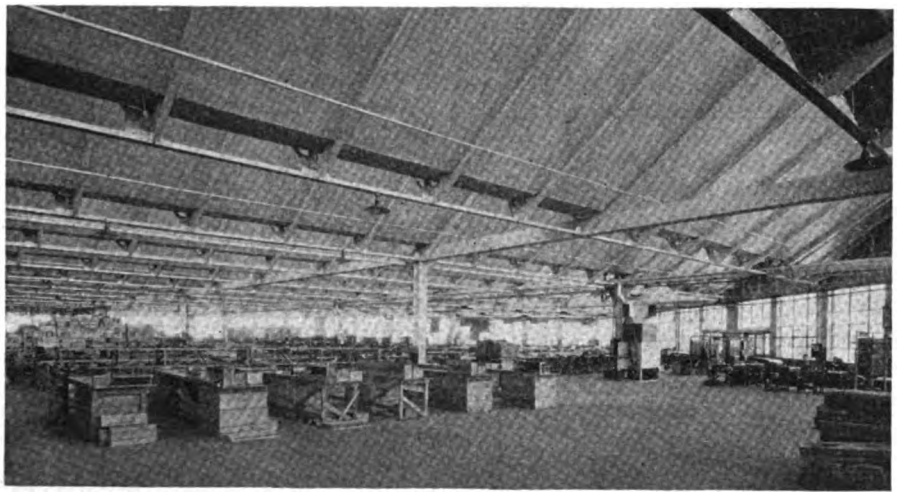
RADIOS are built in this factory in sufficient numbers each day to equip an entire village with receiving sets. From the builder's point of view, the project stands for the most up-to-date in industrial construction. Saw-tooth skylight roof design affords maximum illumination with minimum glare and shadows. The Ballinger Company of Philadelphia and New York designed and supervised the actual building work.



One corner of the great factory showing how the saw-tooth design appears from the outside. Construction here is rough textured red brick with granite base, limestone trimmings and terra cotta copings. Note large glass area

by the Ballinger Company as their "Super-Span" Saw-Tooth type, it was possible in this case to eliminate about 60 per cent. of column obstruction. Briefly, this structural design consists of a series of parallel steel trusses with saw-teeth placed at right angles between their upper and lower members.

The roof is gypsum slab, cast in position and resting on steel purlins. Protection from heat loss in winter and the sun's rays in summer is gained through special insulating gypsum. Over it tarred felt is laid with pebble roofing. It is interesting to note that the pebbles were specially selected with respect to lightness of color for better reflection.



Saw-teeth are placed at right angles to parallel steel trusses, between their upper and lower members. Upper part of trusses shows above the roof, a characteristic feature of this type saw-tooth skylight construction

The equipment of this tremendous plant is everything that might be expected. A "unit" system of heating cares for both heating and ventilation. It consists of heating units with blowers located in various portions of the building with thermostatic control provided throughout.

For fire protection a 150,000 gallon reservoir and an electric pump capable of 1,500 gallons per minute feed wet pipe automatic sprinklers.

Steam power is generated by two 500-horse power water tube boilers with a draft created in a radial brick chimney of 8 foot inside diameter and a height of 175 feet. The steam system is oil-burning.

To supply power for the process work, lighting and auxiliary facilities, a sub-station is incorporated receiving current from the electric company at 2,300 volts and transformed to 220 volts for power and 110 volts for lighting. Direct illuminating electrical fixtures equipped with enamelled steel body reflectors are installed in such a manner as to provide adequate illumination for the entire area for night work.

Further, electrical equipment is found in the large freight elevator used for transmission between ground story and the main story.

The interior views show the advantage of eliminating as many columns as possible. Even with the arrangement of the many work tables used in the manufacture of the Atwater Kent products, radio and ignition apparatus, a great deal of clear space has been left for the further movement of material. Combined with the factor of a single level throughout, the transportation of material, process work and finished products has been simplified to a very great extent. Raw material may be received at one end of the huge building and delivered in finished form at the other without the necessity of moving it in a vertical plane. From every point of view this building layout stands for the most up-to-date in industrial equipment.

From the perspective sketch can be seen the actual magnitude of this enterprise. The new addition is not shown. Since its completion, the building faces on three streets and a private driveway, a square covering the equivalent of several metropolitan city blocks.

Just how the site has been landscaped for better appearance from the avenues can be seen from the aerial view displayed here. This is the second Philadelphia factory operated by the Atwater Kent Manufacturing Company.

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BUSINESS GETTING METHODS

Ideas that have worked for others

WALLPAPER—*the* Magic Salesman

By Edward W. Cornet

"SILENT Salesmen" have played—and will continue to play—important parts in the merchandising of homes. The speculative builder who is anxious to realize on his investment can always afford to spend a little more to add those few "touches" that make the home more readily salable. The return justifies the expenditure many times over. This sales aid, in addition to rendering more attractive the interior, paid for itself and left a tidy profit besides.

THIS is not a technical article, as you will soon discover. It is a heart to heart talk with the man who builds houses to sell.

First, like the speaker who wishes to win the approval of his audience, let me say one word of commendation. Never before in the history of our country has the subject of Better Homes been so strongly agitated, and never has so much attention been given by the builder to the realization of this ideal. Better Homes mean better people, and because you are building Better Homes, America is growing better.

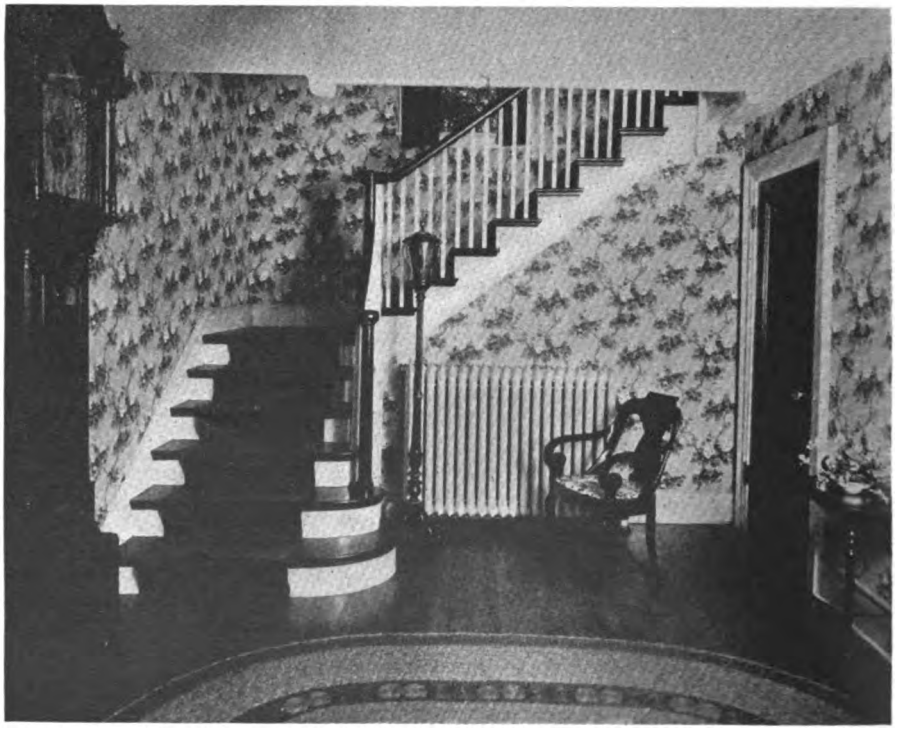
But in my recent study of Modern Home Building, there is one thing that has strongly impressed me. Much attention is given to the appearance and design of the house itself, to the materials used in its construction, and even to the grading and beautifying of the surrounding grounds, but the interior, that which after all constitutes the most important feature of all, is so often left cold and bare.

Let us look at our house for a moment in detail—it faces the east, the entrance hall is on the northeast corner, the coldest spot in the house, the living room faces east and is supplemented on the south side with an attractive sun porch; the dining room opens from the living room on the south side; just beyond is the breakfast room and kitchen on the southwest corner; next, on the west, comes our bathroom, between the kitchen and the bedroom, which occupies the northwest corner, and to complete the whole, before we reach the entrance hall again, is another bed room on the north side. The woodwork of the house is well trimmed, the floors are well finished, but the walls are bare and cold.

Mr. and Mrs. Prospect are coming to look at this house this morning and I am going to try hard to sell it, but first, let me wave my magic wand over it, and see what results. . . .

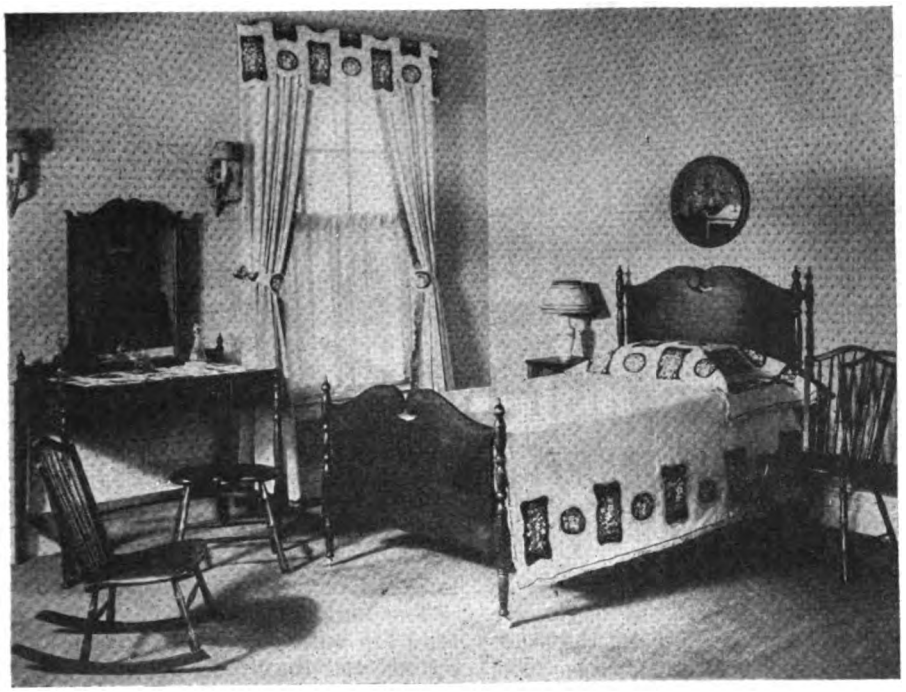
On the cold, bare walls of the entrance hall I have placed a warm, welcoming paper with a bright tan background, a rather large sweeping floral design showing roses in soft orange color, with stems and branches in yellow brown, foliage in yellow tinted green, interspersed with blue to give required harmony.

On the living room walls I have put a faintly colored tapestry paper, designed to provide a suitable background for picture hanging, and easily harmonizing with other deco-



THE cold, bare walls of the entrance hall are easily transformed to radiate an atmosphere of welcome. And how important it is that the first impression of the prospect be a pleasant one.

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THE position of the bedroom in the house—whether north, east, south, or west—should always determine the character of its wall covering. Here is a southern exposure. It admits of a bright, gay paper.

rations. The background is cream with a delicate all over floral design in yellow and lavender, with a showing of pink and green.

On the dining room walls I have placed a charming paper, cool in color, for it is on the south side and gets strong sunlight. It is embossed to give the effect of costly leather. Its large Jacobean floral design in shadow brown, soft blue and rose, against a background of light tan flecked with gold, gives an effect of richness and class that cannot be surpassed.

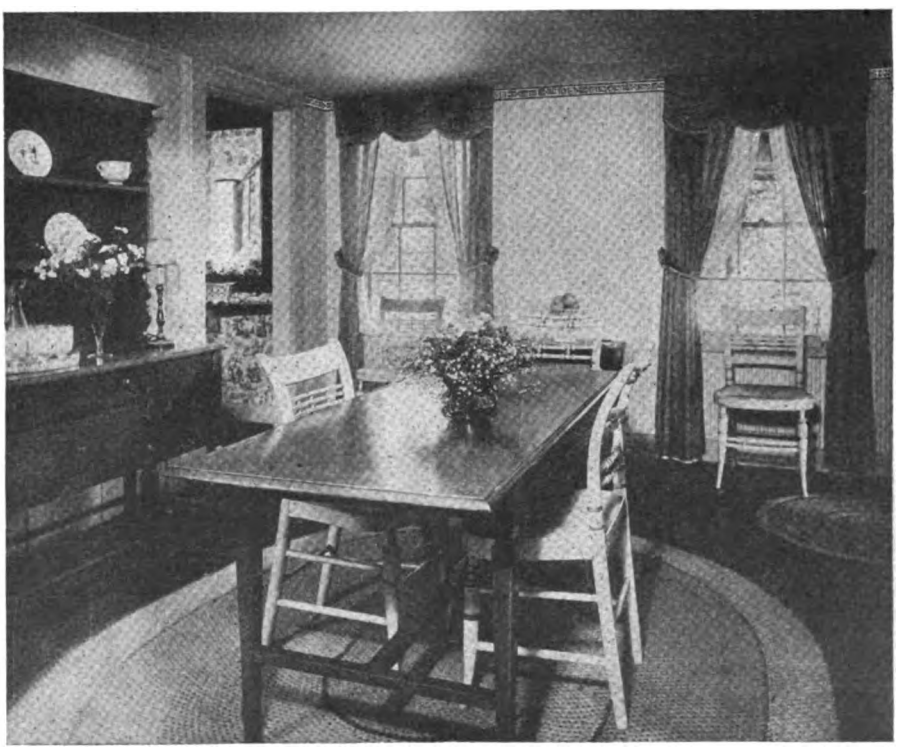
In that cold, north bed room, just back of the entrance hall I have put a beautiful warm paper with a trellis effect in small squares of corn yellow against a rich cream background, luxuriant bouquets of red roses, purple astors, blue forget-me-nots, with tints of green and lavender foliage, set in baskets of black, liven up the background at regular intervals, and defy the chilly north light with artificial sunshine.

For that northwest bedroom, I have chosen a beautiful paper in soft pastel shades. Its soft grey background blending well with the graceful, delicate floral design. Its graceful foliage in taupes and browns, its rose colored flowers adorned with flecks of bright green foliage give a pleasing effect.

On the kitchen and bathroom walls I have spread a glossy finished paper, imitating blue and white tile with a conventional floral design, making the walls look clean and pleasant, and I have one nook left, the breakfast nook. Here I am going to splurge, and I have put in this cozy corner a handsome Japonesque chintz paper. Against tints of blue, lavender and green a light tan background is thrown a strong floral design, its heavy tree branches in black, with large blue flowers, its birds of paradise, parakeets, and butterflies in brilliant hues, its veritable riot of color makes it the happiest spot of the house, and supplies a note of cheer for starting off the day. Some rooms support such brilliancy; this one does.

What have I done? The doorbell rings, Mr. and Mrs. Prospect are here, and as I open the door to admit them the look of unexpected pleasure that radiates from her eyes tells me plainly what I have done! She is delighted, she grows more enthusiastic in every room. The house has thrown its arms around her in welcome; she is Sold!

In a remarkably short time the check is made out for the earnest money, and my capital is on its way toward the construction of other houses; nor is that all; my house was originally priced at $10,000; I paid $150 to have the papering done, and this morning I sold it for $11,000, adding $850 more to my profit. And I sold it more easily than my neighbor with bare walls can sell his for $10,000. His sign is still out "FOR SALE."



DINING ROOMS are more than often found opening to the south. Cool shades of paper, though with color enough to insure their being evidenced, are best. The curtains pick out a dominating rose tint from the walls and border.

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MASONRY
Practical Information on Materials and Latest Construction Methods



Some Notes on English Brickwork

By John Y. Dunlop

BRICK walls in house construction are of two forms: solid walls, which are furred on the inside and on which lath and plaster for the internal finish is laid; and hollow walls, which are built with a cavity—very popular in England. The usual thickness for hollow walls for small houses is only 11 inches. That is to say, two half brick skins and a two-inch cavity.

Theoretically, a cavity half an inch wide is to all intents and purposes as effective as one a foot wide, but a narrow cavity is so easily bridged by a piece of brick or a chance dropping of mortar that a cavity of not less than 2 inches should be adopted. The two skins of the wall which form the hollow space are strengthened by the addition of the wall tie or bonding brick.

Several sketches are shown of how common bricks are used in the bonding of hollow walls. The first arrangement shows a brick-on-edge proposition in which the bricks are set off in Flemish bond and the headers form the bonding brick. The stretchers laid on edge form a hollow space of about 3 inches.

Another method is shown in which the bricks are used in much the same way, only this time the bricks are laid in flat. All the stretchers in this wall are laid to form the hollow space, while the headers are kept flush with the face of the back of the wall equal to the distance between the stretchers. A wall of this kind will build from 10 to 11 inches thick, while in the first example the thickness of the wall is 9 inches.

Another type of 9-inch hollow wall is shown in which the arrangement in the face is English bond; only here, the stretcher courses are built on edge, while the header courses are laid in flat.

The bulk of brick walls in England are built solid and to ensure a strong wall the bricks are laid with the joints in the one course breaking joint with those in the other. In other words, the bricks are thoroughly bonded together, the bond tying the wall together both longitudinally and transversely. The bricks are built in English, Flemish, English garden bond and Flemish garden bond.

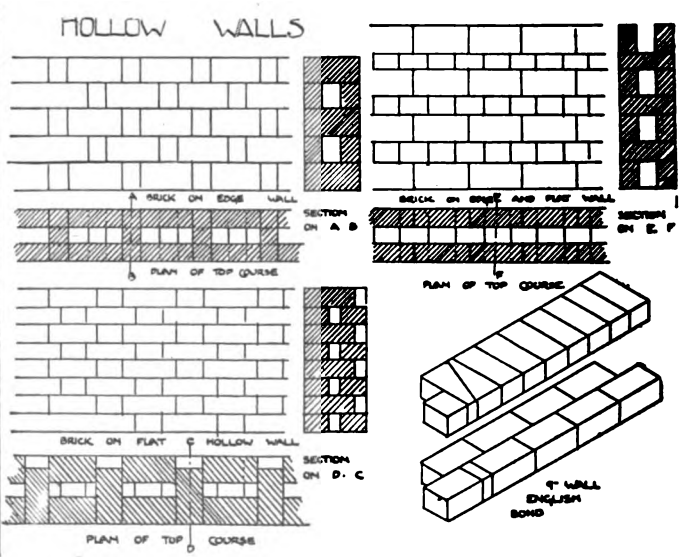
For small houses garden bonds are much in use, since it permits building the wall with three courses of stretchers and one of headers. Flemish garden is three courses of stretchers and a course consisting of header and stretcher alternately.

We have, then, in each of these ar-

English country house of brick built with hollow tile construction. This type is very popular in Great Britain



Various methods of bonding with common brick in hollow tile construction. English bonding is shown to good advantage



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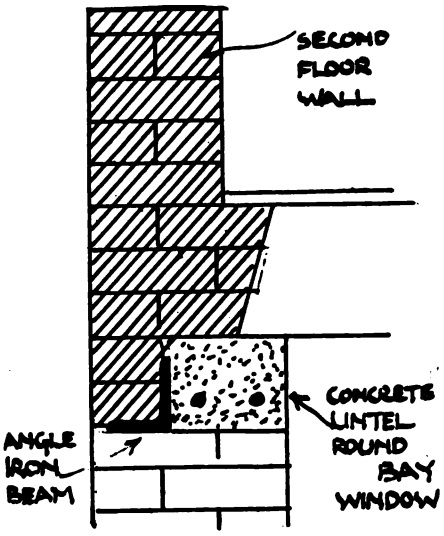
rangements a smaller number of headers than with English or Flemish bond. With thin wall, this is a decided advantage, since it allows the wall to be built with two fair faces and with less trouble.

To build facing bricks well in any wall it is advisable that the height of the common brick and the facing brick be the same, otherwise it is impossible to make a really good bond. Where the facing bricks are thinner, the bricklayer tries to build four of the outside skin to three of the inner part of the wall. In this way he is able to bond the work well at those level courses.

For the function of angles other than right angles, purpose made brick are often obtained of the desired shape except, of course, for rough work when bricks are chipped to the required shape. Bricks with one angle rounded, known as "bull-nosed" bricks, are largely used for the formation of window and door reveals. They are especially to be desired in glazed brick, for the sharp angle of a glazed brick is easily chipped off.

The shaping of bricks need not be confined to simple curves as splays and mouldings of various kinds may now be had in most brick fields.

In facing brick the bond is always carried out very carefully on the face of the wall. Since the reveal of the door or window jamb is also an exposed surface, the same careful arrangement should be carried out in forming the return. In building window or door openings the lintel



Bay window construction presents an important problem in bonding with common brick. Lintel here is concrete

is very often a concrete beam because concrete allows itself to be easily moulded. And since many of our smaller houses are covered with stucco this concrete lintel forms a fine bed for stucco work.

Taking the depth of the wood lintel to be 6 inches in the middle and at the ends, 2 inches, it gives a rise of 4 inches. The span is the width of the opening between checks of the jamb.

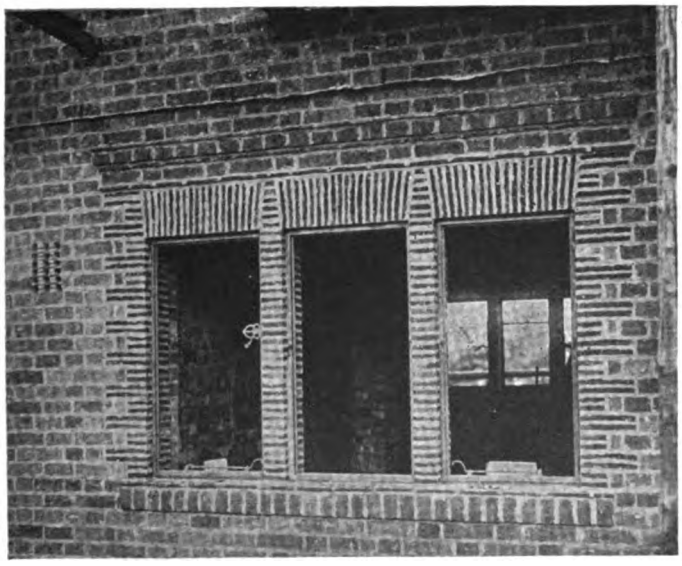
A very interesting example of brickwork round a three-light window, shown in the illustration, has the brick dressings of the window built with thin slabs. These slabs are half the thickness of an ordinary brick and show the possibilities of treating openings in a simple way. This window was built to surround a metal frame. Whether or not it was the architect's intention to chip out the pieces for the frame in a 1½ slab rather than in a whole brick, I cannot say, but in building the window mullions in this way, he has certainly struck on something new. The vertical piers (mullions) extend through the full thickness of the wall, while the arch is only 4½ inches thick. The internal part of the wall over the window has a wood lintel and a two-ring, rough, relieving arch.

The bull-nosed segmental arch is built in a 9-inch wall. On the back are two 4½-inch brick rings with taper mortar joints. The sill of the window is built with an ordinary brick laid to drain the wall, the course to be bedded in Portland cement.

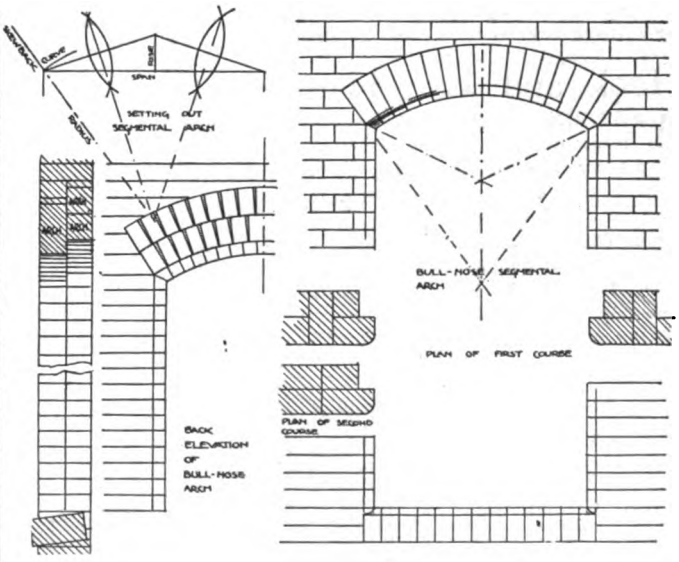
One of the many prominent features which the English bricklayer has to deal with is the building of the brick bay window. Much of this class of work is now being put up with common brick and covered on the outside with stucco. Here is a drawing showing how the bonding is accomplished.

In Spain, the thickness of the modern brick is about 1¾ inches. In England, however, they have for ages built with bricks somewhere between 2¾ and 3⅛ inches thick, although many architects are now in favor of thinner bricks on the score of appearnace.

In this window detail the brick dressings are built with thin slabs. The result as seen gives an effective appearance



The bull-nose segmental arch in a 9-inch wall. The window sill is laid of ordinary brick and is imbedded in Portland Cement



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Kinks from the Job and Office

Caulking the Log Cabin

MR. Charles E. Greening, president of Greening Nursery Co., of Monroe, Michigan, has found a unique method of filling the cracks between the logs of the five log cottages he has built at his resort project, Bitely, Michigan. In



the old fashioned log buildings, plaster was used to fill the cracks. Then when the logs shrank, the plaster would fall out, leaving a wider crack than before. Mr. Greening, who has been a yachtsman for many years, conceived the idea of using oakum instead of plaster with satisfactory results. The oakum is spongy and expands to fill the cracks when the logs shrink. Besides, it can be stained the color of the logs, and is entirely invisible from the inside of the buildings.

Mr. Greening builds the cottages from green pine logs. He has these cut in the winter and peeled, leaving part of the cambium layer of bark, which adds much to their beauty. In order to set this layer so it will not come off later, he has the logs painted two coats with boiled linseed oil. This not only sets the bark but also renders the logs impervious to water. His methods of peeling, treating, and laying the logs marks a new era in log-cottage construction.—**H. L. Spooner.**

Hook and Eye Hanger

A SCREEN hanger made of a wire screw eye and a wire screw hook, is shown by the accompanying drawings. Fig. 1 shows a side view—the eye is screwed into the screen frame at about the angle shown and then bent back in line with the surface of the screen frame. The hook is screwed into the head casing of the window frame in such a way that it will receive the eye when the screen frame is put into place. The hooks come from the market bent at a right angle but they must be bent slightly out, as shown on Fig. 1. This hanger is simple, substantial, and serviceable.—**H. H. Siegele.**

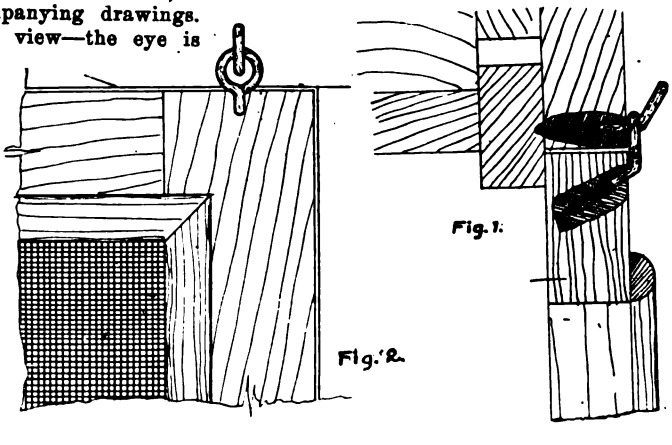


Fig. 1.

Fig. 2.

THE ingenious builder discovers some kink on every job—some way in which to cut down time and labor. Let your fellow builders share your next happy idea for a short cut. Readers are constantly putting into practice kinks they find on these pages and they will welcome yours. Moreover we pay $2 for each one that is published. Send contributions in care of this department of BUILDING AGE AND NATIONAL BUILDER.

Attractive Filling Station

THIS service station is finished in pebble dash concrete; the building is set well back and the front of the lot



concreted to provide a hard, dry surface for autos. Located on the main street of Marceline, Mo., it beautifies the neighborhood in addition to providing a handy station for motorists. Service stations are being built along better lines everyday, thanks to enterprising builders.—**P. H. Patrick.**

A Novel Float

FOR the Merchants' and Manufacturers' Parade last October, the writer constructed this float. The house is 24x36" square and the cabin 18x20".



Both are mounted on the back of a Ford truck and were the source of quite a bit of comment. The idea of tying up the type of structure of 100 years ago with the present day model is appealing to everybody. Other builders may find use for such a scheme as this.—**G. Wray.**

Some Primitive Architecture

THIS little story may be a bit out of place, but the photos will probably be of interest by way of a curiosity. The writer happened along a sand hill road in central Nebraska last fall and this is what he found: A complete group of farm buildings on a little farm and the only framed structure was the house! Of course he stopped and took a couple of pictures. In talking with the farmer's son, it was learned that the buildings had been put up some time ago because funds were short.

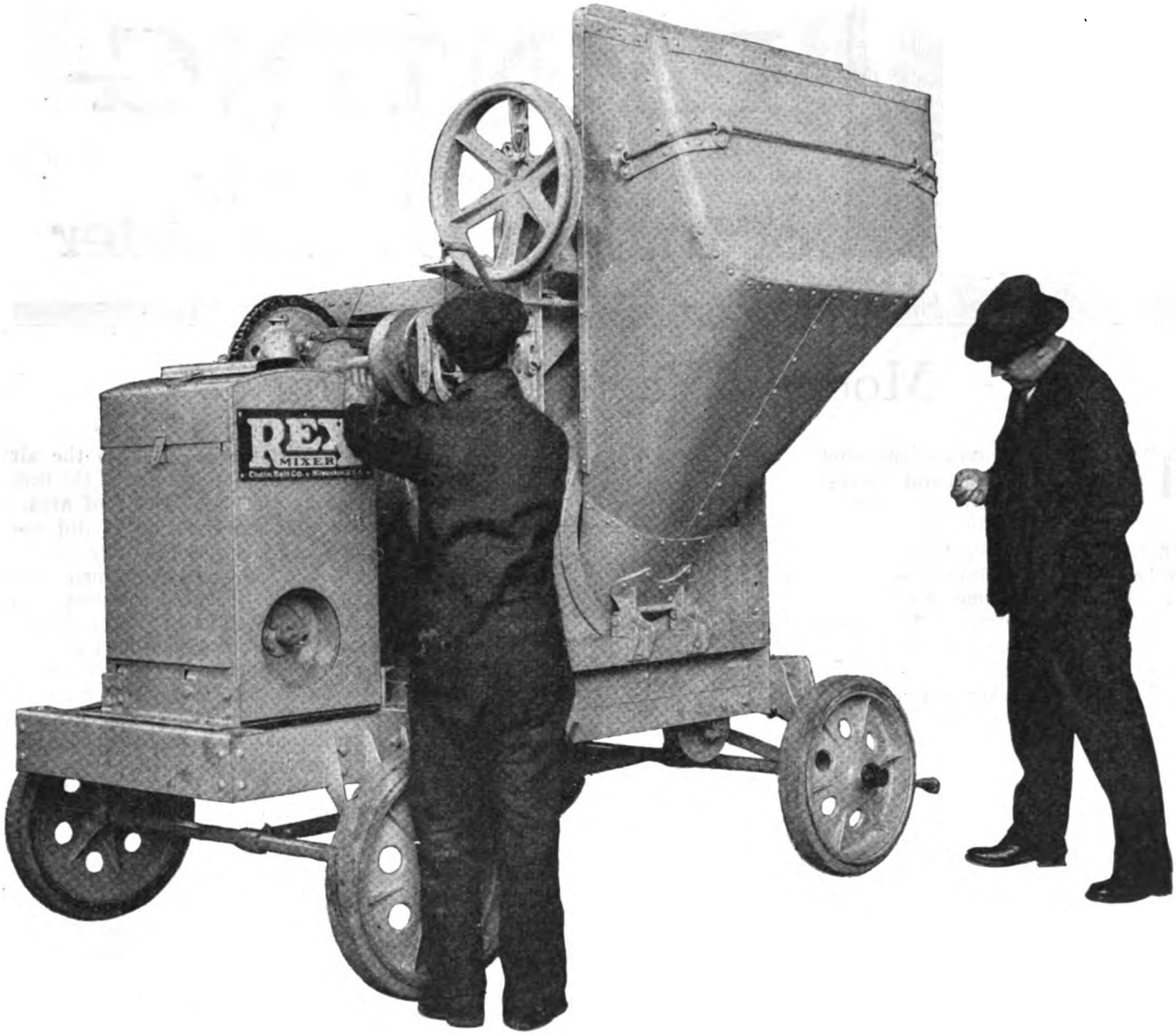
The owner must have come from



skilled basket-weaver stock for close examination of the various buildings which were built of willow saplings failed to show anything but skilled work.

The dimensions of the building were first marked off and posts set two or three feet apart with smaller saplings upright between them. Then the small limbs were woven in and out in the regular fashion.—**D. R. Van Horn.**

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Seven seconds and the skip of the Rex 237-S is raised to dumping height. This is the first reason for the exceptionally fast charging time of this full-bag machine. Stream lines, rounded corners and a wide throat help materials to slide from the skip rapidly. Big blades pull them through the big intake opening. With big buckets, a big discharge opening and a wide discharge chute to make discharging time equally fast, it is easy to see why the Rex 237-S has been turning out monev-making yardages for contractors all over the country. Each sixty seconds saved in charging and discharging time adds another batch to your daily run.

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PAINTING

Practical Points of Interest to the Builder

Modern Machine Painting

By A. Ashmun Kelly

A TEXAS painter writes that competition in his town is so unfair it is destroying his business. Our Editorial Advisor on Painting, A. Ashmun Kelly, suggests that this man remove to another city or enter the employ of a first class painting contractor. Or better still, Mr. Kelly believes, that he remain just where he is and meet competition with a painting machine. The economies to be so effected are taken up here and the article, in addition to answering the Texan's complaint, will prove invaluable to everyone who has given thought to this equipment.

THERE are several firms now manufacturing paint spraying equipment of various types but essentially the same in general performance, that is they apply paints by atomization with compressed air. Some of these are operated by electric motor while others employ gasoline engine to drive the compressor.

The paint is carefully strained into a pressure feed container from which it is forced through the fluid hose to the gun nozzle where it comes in contact with compressed air and is thus atomized and applied to the surface in the form of fine mist. The force of this air tends to drive the paint into all the crevices of the surface to be coated very thoroughly.

Naturally these machines vary in value, in accordance with their construction, etc., and care should be taken in the selection and purchase of same, to insure your getting the type of machine which will prove most economical due to its requiring the least amount of repairs and general maintenance expense.

Air brush work done under proper conditions is entirely satisfactory in every respect and in fact in many instances superior to hand brush work. Brush marks, laps, etc., are entirely eliminated, all cracks and other imperfections are filled and owing to the uniformity of application, one air brush coat usually is equivalent to two coats by hand brushing.

It is necessary and advisable to cover floor and any objects thereon with drop cloths when operating the spray, just as it is when using hand brushes, as a paint mist will fall which is approximately equivalent to the droppage usually experienced with hand brushing.

A few years ago the Government made some very extensive and careful tests with the paint spraying machine as compared with hand brushing on Government buildings in Washington. The machine used was a 5-horse power 220 volt, direct current electric unit, a 5-gallon paint container being employed in connection therewith. This was equipped with double hose leads and two men operated therefrom.

On the exterior an expert air brush man started to work on one side of the building and two journeymen painters with 4½ inch flat wall brushes started work on the other side of the building. Both sides presented identical surfaces.

After the work had been started a journeyman painter, unfamiliar with paint spraying machine work was shown how to operate the air brush. This man completed the test, including the walls and roof area.

The test showed that it did not take long for a green hand to master the art. The walls contained over 8,000 square feet and the roof area nearly 9,000. The paint for the exterior wall work was a lead and oil base tinted with yellow ochre. First coat was mixed 17.6 lbs. per gallon and 20 lbs. to the gallon for the second coat. The air brush handled both perfectly.

The paint used on the roof was iron oxide, mixed 14 lbs. to the gallon. Paint used for the interior work was a sanitary flat wall paint, lithophone base, 14 lbs. to the gallon.

It is quite apparent that the air brush successfully will handle paint of practically any consistency. This is readily taken care of by adjusting the pressure on the liquid material and by the design of the air brush.

It had previously been assumed that the average journeyman painter working on wall surfaces and using a 4½ inch brush would do about 200 to 250 square feet per hour.

The completed work showed a very favorable comparison, with the air brush work more opaque.

Painters with hand brushes used drop cloths at the base of their work but none were used by any of the operators of the air brush outfits. A fine mist was noticeable but not objectionable. This was on the exterior. On the interior the mist was more noticeable and drop cloths were used to prevent staining the floors, etc.

On the interior, one room was done by two painters using hand brushes and a like room was done by a man with spraying machine. Ceilings were arched, four arches meet-

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Please send complete details for the Johnson Electric Floor Polisher and your special offer on it to contractors and building managers.

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The air brush painting equipment is especially economical in painting the hard-to-get-at-corners of residence exteriors

ing in the center of each, which made the painting rather difficult by hand but much easier for spray work. Other architectural features of the room are described and present an unusual construction. The hand painting was quite noticeably streaked and the coverage poor, while the air brush work was entirely devoid of streaks and thoroughly covered. This was the experience of government experts—You wish to know the relative merits of air brush painting and hand brushing.. It is the intention of the writer to give you these facts as clearly as possible to assist you in determining the practicability of these equipments. It will also be well to hear what some of our contractors think about it.

THE following are a few excerpts from reports received.

"I am using a paint spraying machine in general contracting work which includes frame, stucco and brick buildings, and both interior and exterior factory and business building work. Have had no trouble spraying any standard paints or lead and oil mixtures with the machine, and am doing well. Prior to this profits were so small that I thought of giving up the business."

"Can hook up all our guns and work all around the building without any difficulty. Outfit is easy to move from job to job. My machine is also useful in advertising my contracting business, as I have it lettered with name and residence, the result of which is that I often have inquiries with requests for prices. We get work that way that otherwise we never would have heard of."

That contractor-painter is doing big work and lots of it, all due, he says, to having the machine. An Amusement pier, the first job, then town and country residences, country bridges, and so on. He also speaks of interior work for the winter, some 75 buildings for realtors. Then he says they will go into auto work, as well as porch furniture and wicker work in general, anything in fact that can be painted with a sprayer and that means everything.

"WE got contract," says another party, "for painting the city light standards, 64 of them. Then we painted the city parking spaces. We are able to do one block per hour as compared with one block per day by hand brushing." This contractor shows photograph pictures of eleven houses done in the past sixty days with notes of time required. "Our work has greatly pleased customers and we have a great deal of work ahead. We have bought and applied more paint during this time than in any former entire season.

Another man writes: "I got the job $300 below the other bids offered, and made nearly $400 above the cost of paint and labor. Have other jobs, from which I shall get like results."

"We have done a job, kitchen and bath room, painted a dirty green, with one coat and covered it perfectly. We have also applied mahogany varnish stain over varnished natural pine with perfect results. We have handled white over hanging eaves, green shingle stained gables, varnish porch ceilings, doors, gray porch floors, and red foundation, without using a brush at all for cutting-in. Any painter who is careful and expert can do the same."

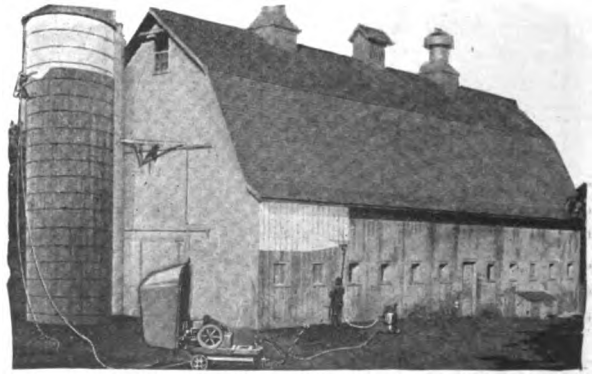
Considering the fact that there is a far greater amount of work to be done than there are painters available to do it, the air brush machine is the logical answer to the situation and offers the opportunity for contractors to extend the season, give better pay and make a great deal more money.

Air brush painting equipment has an appeal for two classes of contractors. One is a numerous class that is willing to try anything that promises an increase in profits. The other is an equally numerous class that has to meet hard competition. The experiences quoted above indicate that both classes might with advantage look into the merits of the air brush system.

After all it is a logical development already tested by time in other classes of work. For monotonous work the machine is a winner. The operators of machines in time become skilled workers in their particular line. But they do not displace entirely the fine manual worker. Instead of that they make plain work so cheap that more of it is done and this increases the demand.

There is some disposition among the Unionized painters to decry the use of machines in painting, using the ancient argument of taking work out of their hands, bread from their dependents. But let them read Samuel Gompers' "Accept The Machine," and also the official Year Book issued by the Executive Board of the New York State Conference of the Brotherhood of Painters, Decorators & Paperhangers of America.

NO, the painting machine, like other machines, farm machinery for instance, which has greatly lessened the cost of farming, while farm hands are at a premium, will give the workman more work, extend his working seasons, give him better pay, as the contractor can make more money and is willing to pay better wages.



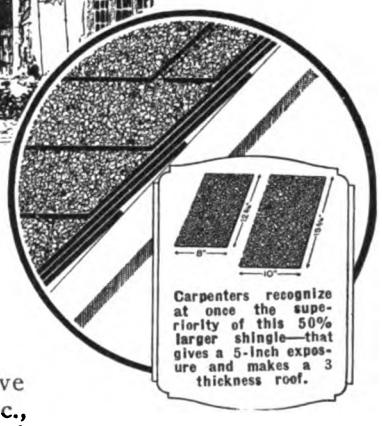
For painting barns, air brush painting equipment cuts down costs so that there is no excuse for the unpainted barns

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Cliff Court, Birmingham,
Parish & Byrd, Realtors, Inc.
Associate Architects
P. S. Mewhinney F. W. Clarke

A Final Touch of Quality-
"the Shingle that Never Curls"



Carpenters recognize at once the superiority of this 50% larger shingle—that gives a 5-inch exposure and makes a 3 thickness roof.

"WE want a roof that guarantees lasting protection and attractive appearance to our houses," states Parish & Byrd, Realtors, Inc., the well-known Birmingham concern just completing Cliff Court, "and so we selected Carey Asfaltslate Shingles.

"First of all, we selected this shingle because it is recognized as 'The Shingle That Never Curls.' We know it is a roof that will live with the houses, and give our patrons many years of satisfaction.

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"In the Carey Asfaltslate Shingle we feel we have a thoroughly satisfactory roof, one that is in keeping with the high quality of materials and equipment that is found in the houses. Steel casement windows with plate glass panes, Carey Asfaltslate Shingles, and other such features are found throughout these nine wonderful little homes in Cliff Court."

Carey Asfaltslate Shingles will give the houses you build that "final touch of quality" as it did this attractive group of residences in Birmingham.

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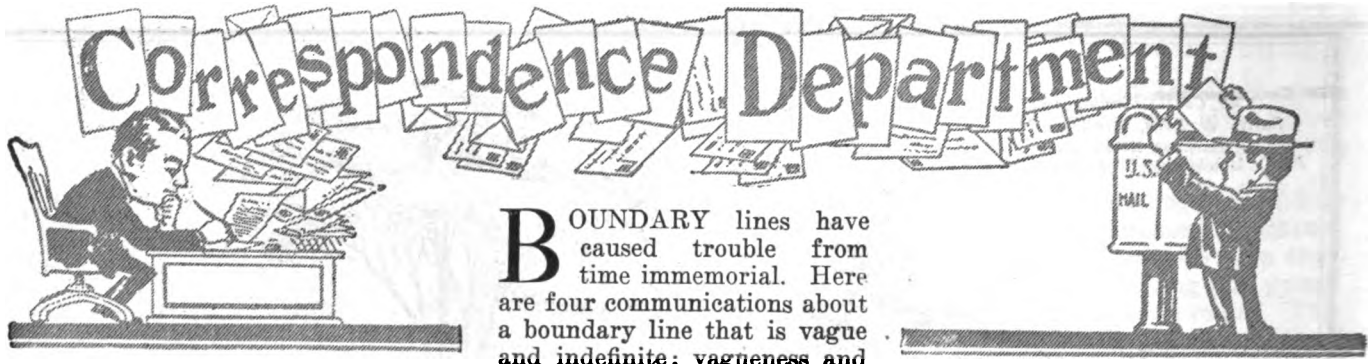
Gentlemen: Please send copy of "Before You Build" booklet and sample to

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BOUNDARY lines have caused trouble from time immemorial. Here are four communications about a boundary line that is vague and indefinite; vagueness and indefiniteness being the cause of boundary line troubles. To the man who feels pinched it is mighty real. This line lies between the fields of endeavor of the professional man and his business associates. Other readers may feel inclined to discuss the question and this page is theirs for the purpose. Communications are invited. Make them short and to the point. The Editors assume no responsibility for opinions expressed on this page.

The Cost of Plans

AN architect writes to us as follows: "Note on your sample full-size specimen sheet of 'Beautiful Homes of Moderate Cost' that you have the following on the bottom of page, Design No. 1: Complete Blue Prints, Plans and Specifications, $21.00 (see page 5)."

"How can an architect pass a book out with such notes and prices and then expect to get 6% or 7% for plans and specifications?"

ONE of our correspondents in a western city, writing on the same subject says, "It is seldom that an architect can afford to make plans for small houses, and it is seldom that a prospective home-owner can afford to have them so made. So there you are! Which same, in my humble opinion, accounts for the 'horrible architecture' of small houses that is evident in all our cities.

"During the past ten years I have accumulated a dozen small house designs which I have termed 'stock,' that is to say, they are for sale at a nominal price that puts them within reach of the small-house builder. I find this the only way to handle work costing less than $7,500.00."

MR. EDWIN H. BROWN, chairman of the Committee on Small Houses of the American Institute of Architects, is authority for the statement that ninety-five per cent of houses containing six rooms or less are not designed by architects.

THE architects in Oklahoma sent the following communication which is reproduced here in full:

WE have long had a desire to speak out loud in behalf of the ordinary average architect who subsists upon the average sized building work, which consists of commercial and residential building which will run in cost from $5,000 to $15,000.

It is the men who do work in this class that constitute the great numbers who are practicing the architectural profession, safely say 80%.

It has now become the custom of various manufacturers of both good and bad building commodities to advertise in various periodicals over the country that, for the small sum of from ten to fifty cents, they will send to any prospective builder not only a plan but a book full from cover to cover with many and various kinds of plans.

Of course we all know that it is impossible to build from these plans, but the man who may become the architect's client does not know it, for the advertiser never makes such a statement although he is well aware of it. It is merely a practice of subterfuge, promoting impractical application of his own product and stimulating hard times for Mr. Average Architect, whose good will and patronage he tries to cater to through all the architectural periodicals that the poor fish supports out of his own shallow pocket-book.

Some of these cut rate plan systems are advertising seemingly with the sanction of the A. I. A. and this is stressed upon to the fullest extent and, to the casual observer, puts Mr. Average Architect in the position of one who is out with the one single idea of starving to death, for does not his own greatest organization sanction the idea that plans should be had for small sums or a mere pittance compared with the enormous amount he wishes to charge his client and which seems in direct conflict with the very teachings of the great A. I. A., who should be his great guiding light, but who in fact are putting him in shackles.

There are numerous periodicals running so called plan service bureaus, printing in each issue a house plan which they will furnish to any reader for a sum way below any known architectural fee.

All the reader has to do is to imagine that the building will suit his purpose, which of course it will not do in most cases, and then the local architect is presented with the picture and small scale plan to be made over, so, IF he will do it at the same price, which he cannot do.

Therefore, in the eyes of the client, even after copious logical explanations, the architect must be crazy for he has read and knows that entire books of plans can be had for the sum of not over twenty-five cents and the A. I. A. advocates cheap plans, and nearly every magazine his wife buys also says that this is the case, so of course he cannot be wrong.

Some of these advertisers, after mentioning these various cheap prices on plans, suffer some sort of a pang of pain for they will insert in the advertisement, in an obscure sort of place, something about seeing your architect, but the damage has already been done and when he does see him the architect is merely in for more trouble by having to explain again the great reason WHY.

The hard part of it is this, every one publishing this kind of matter knows better than to do it and should come out truthfully and state why the architect should be patronized first hand and in person and state the benefits of personal service and the benefits of a knowledge of local conditions and the benefits of having the owner's own individuality correctly enshrined in his own home, and many, many other reasons that cannot be stated here.

This great 80% of men in the architectural profession is likewise the 80% of all the subscribers to the various architectural magazines, all of which they like and, as a rule, they subscribe to more of them than they can afford.

It would seem that it would be just and proper for these periodicals to reciprocate and to aid Mr. Average Architect, who for years has paid his good hard earned money to these various publications, and to take up the cudgels in his defence, for at the present rate 80% of the subscribers will vanish into the great unknown and the only architects left will be the ones who design and plan the great structures and the twenty-five cent plan will reign supreme.

This communication has its origin from the discussion at a recent meeting of the Tulsa Architects Association, following the reading of a letter published in the March 11th issue of the American Architect, page 218, written by H. Lucht and H. G. Anderson, architects, which we consider both appropriate and timely. We would appreciate an expression from you in this regard. Yours truly,

H. H. Wahler, President; A. T. Thorne, Secretary; W. D. Blacker.

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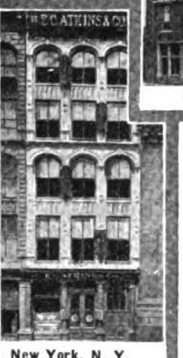
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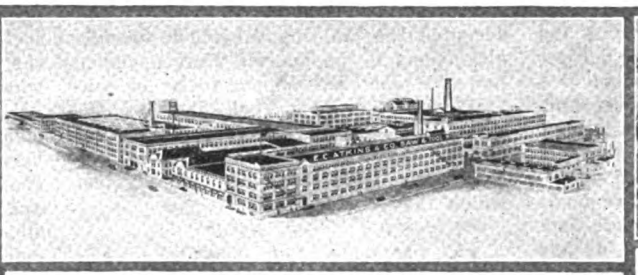
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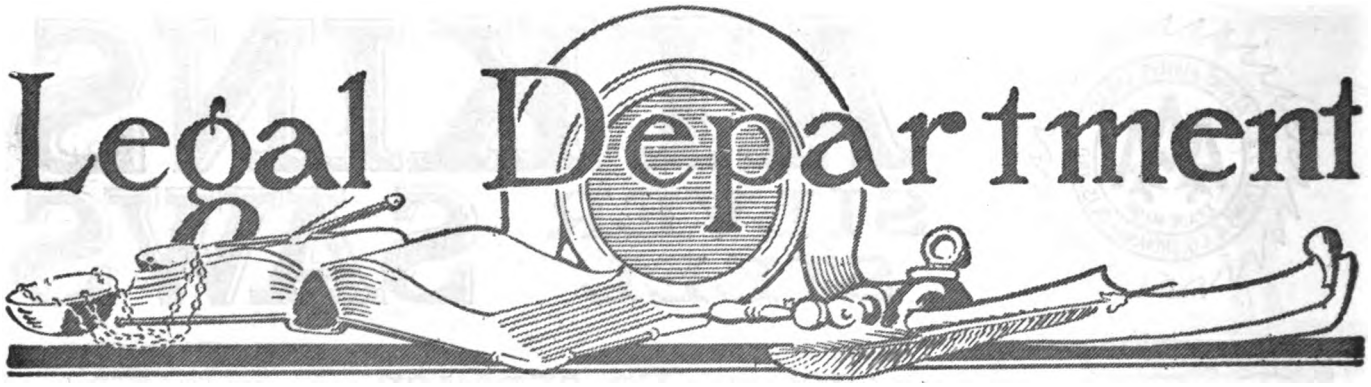


Home Office and Factory
402 S. Illinois St., Indianapolis, Indiana



Canadian Factory, Sherman Avenue,
Hamilton, Ont., Canada.

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Effect of Owner's Occupancy Of Building

By Arthur L. H. Street

LEGAL assistance to the builder is in a class with medical aid—he may never have need for it yet should the occasion arise it is vitally necessary that the help be at hand. This department lends assistance and more. Problems common to the building industry are taken up and discussed while our legal editor, Mr. Street, is only too glad to aid you in your special problem. Send all facts of the case to this department of the magazine.

MAY an owner, after moving into a newly completed house built for him under contract and after accepting same as completed, although final payment has not been made, find fault with certain parts of the work and, on that account, withhold a balance due or deduct any part if we refuse to remedy the complaints?

This question is fairly answered by what the New York Court of Appeals decided in the comparatively recent case of Cawley vs. Weiner, 140 Northeastern Reporter, 724. Holding that owners by taking possession and presenting a list of certain defects to which objection was made did not necessarily waive right to object to other defects, the court said:

"The house was built upon the defendants' property. They could move into it, live in it, and in this sense accept it, without waiving any defects in construction. . . .

"Unless the plaintiff were in some way harmed by the action of these defendants in furnishing him with a list of the defects, how are they estopped from showing the departures from the plans and specifications? The contractor ought not to be paid for that which he has failed to furnish, unless there be, in fact, a waiver which means an acceptance knowing of the defects or else an estopped, which means that the defendants are prevented from claiming the defects because it would be unfair to the plaintiff in view of their previous action. The plaintiff does not claim to have changed his position in any way."

This is in line with what courts throughout the country hold, and the following summary of law on the subject made by a standard legal authority:

"Since the owner cannot divest himself of the possession without surrendering a portion of his free hold, where a structure or other work is erected on the land, or repairs or alterations are made on an existing structure, the mere fact that the owner, on the failure of the builder fully to perform his contract, takes possession and occupies or uses the structure does not necessarily constitute an acceptance of the work as a performance of the contract and a waiver of the builder's failure fully to perform, unless there is some positive act on the part of the owner showing that such occupancy or use is intended as an acceptance, or unless an express waiver is shown. . . . Possession or use, however, is evidence of acceptance or waiver, and when considered in connection with other circumstances, such as some act or some language on the part of the owner, may be sufficient to show an acceptance or acquiescence." 9 Corpus Juris, 798-799.

In the case of Vanderhoof vs. Shell, 72 Pacific Reporter, 126, the Oregon Supreme Court decided that there was an unequivocal acceptance of a building, where the owner accepted the keys and accepted the building subject to specific alterations to be made. That decision, however, does not appear to be in conflict with the New York decision, because in the New York case it does not appear that the owners accepted the building subject to the defects against which they complained.

Dealing with a Church

IN no case should a builder extend credit for compensation due him for construction work without making sure of the title of property on which a lien is to be claimed, or without making sure that those expected to be held personally liable have (1) bound themselves and (2) are financially responsible.

The builder must be particularly watchful of his step when he deals with church and kindred societies. The law reports contain many decisions handed down in cases where a "religious" society, or one specializing in promoting the "brotherhood of man" and the Golden Rule, has unsuccessfully attempted to wiggle out of paying a builder. Perhaps, these societies have considered the builder a heathen because of his nonmembership in the particular organization, and therefore properly dealt with in a heathenish way.

One legal hazard in dealing with building committees is indicated in a decision handed down by the Michigan Supreme Court in the case of Clark vs. O'Rourke, 69 Northwestern Reporter, 147. In that case, it was materialmen who went into the law courts to establish a claim against defendants on account of lumber, etc., furnished for the erection of a church building. But the same legal rules would apply to a contractor's claim. The church society was not incorporated. Affirming judgment in plaintiffs' favor, the Supreme Court said:

"The church organization had no legal existence. It could neither sue nor be sued. The members of the society were not partners. Those of the society who were actually instrumental in incurring the liabilities for it are liable as either principals or agents having no legal principal behind them. Members of the society who either authorized or ratified the transactions are liable, while those who did not are exempt from liability. . . . These defendants were the active managers, and, with the other two members of the committee, were in sole charge of the work, and, under the law, and the facts were properly held responsible. The law does not, under such circumstances, leave the creditors to search out the individual members of the society who have authorized the transaction, but holds those liable who have dealt with the creditors in the capacity of agents or principals during the transaction.

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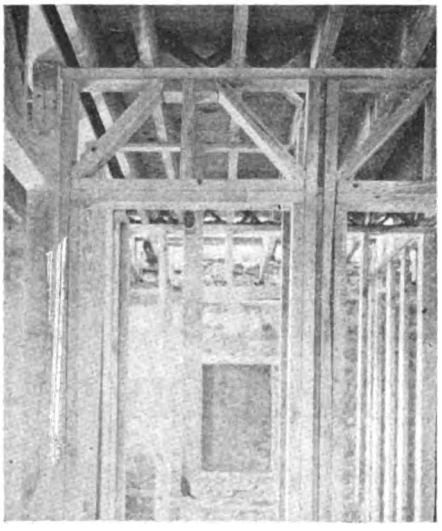
On the Job with the Construction Editor

ONCE more on my travels from city to city, I am finding again among builders the same spirit of energy and alertness and the same abundance of construction ideas and aids as in the past. A few of the latter are presented in these pages. Sincerely,

Roy A. Singer.

Framing for Door In Bearing Partition

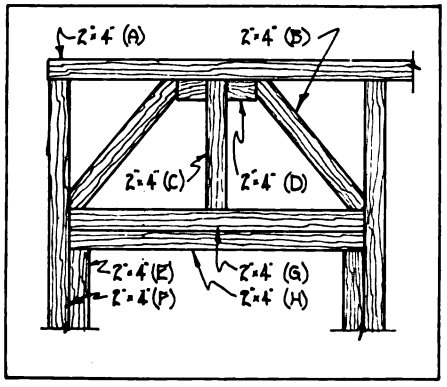
EACH carpenter seems to have a way of his own when it comes to framing door openings in a bearing partition, but it may be that the one shown here



will give some reader an idea. It has several features to recommend it to the man who is interested in doing good work. Notice that it has all the appearance of a shortened bridge truss, and this is really what it is. The diagonal members are used to add to its strength and stiffness.

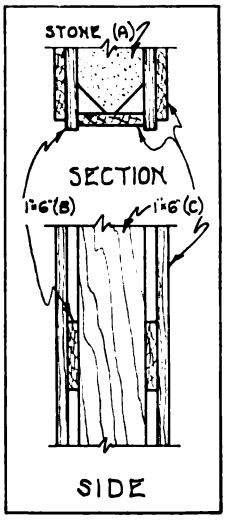
The top sill (A) forms the upper chord of the truss, the partition studs (F) form the two end verticals, and the lower chord is composed of the two 2"x4"s (G, H). In the center of the truss is set the vertical 2"x4" (C), and at the top of (C) are placed two small blocks (D). The diagonal (B) is cut so that the ends set in the corners as shown.

On the whole, this arrangement makes for strength and stiffness. It may be improved by using a double top sill (A)



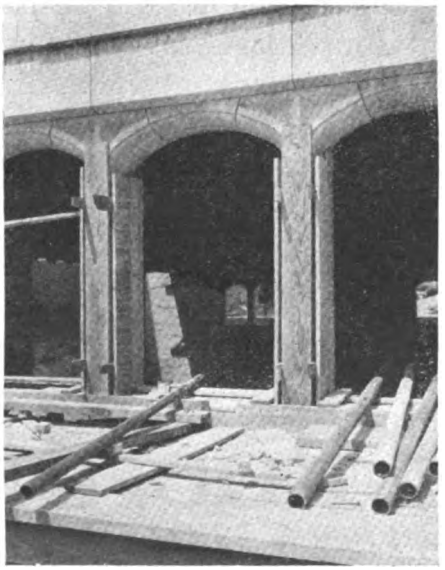
Terra-Cotta Trim

SOME builders will spend good money for ornamental terra-cotta to set in a building, and then neglect to protect it from damage during the construction period. This is easily chipped, and once the surface is broken nothing can be done to replace it.



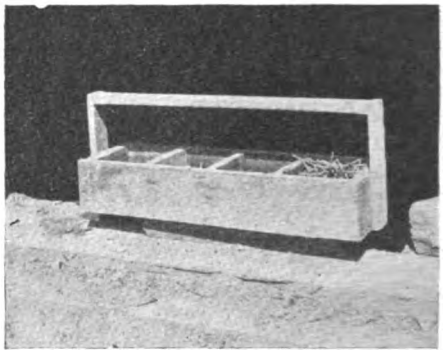
Where trim between window openings is to be protected, the arrangement shown here will be found to be a good one. It gives the maximum expenditure of labor and materials. Furthermore, it is self-sustaining.

The vertical pieces (C) are held together by means of the cleats (B) which are fitted close to the trim (A). Only a few nails are required. At the bottom of the piece (C) a nailing place is available for the sill protection as shown in the picture.



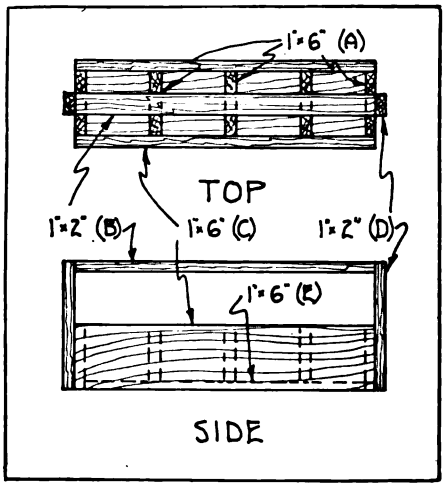
A Handy Nail Box Easily Made

SHOWN here is a handy nail box which may be made in a very short time, and which will soon pay for itself in

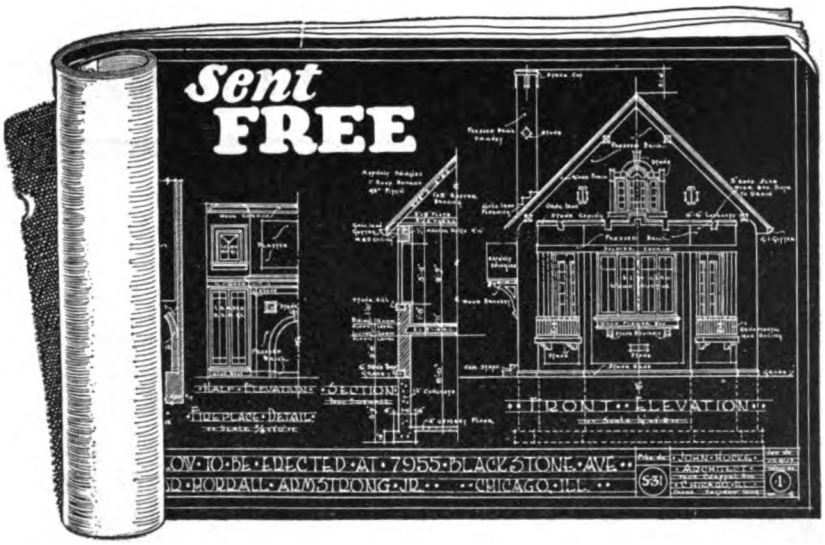


time saved in looking for the proper size nail to use. It is made of 1x6" and 1x2" as shown. The sides, bottom, and partitions (A, E) are made of 1x6", and the handle (B, D) is made of 1x2". More or fewer partitions may be built, as desired. A handy size for the partitions is 6"x6". This will make the box just the right size for easy handling.

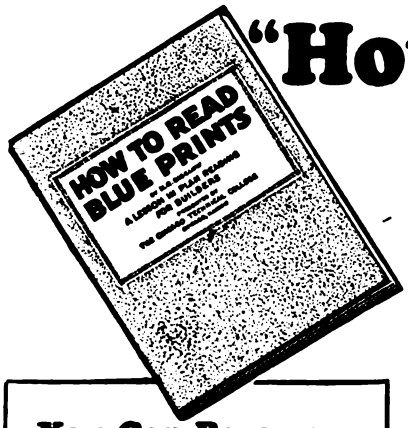
The advantages of such a box are readily apparent. In it may be carried nails of different sizes, a good quantity of each, with no danger of their being mixed up. The box, if made to the recommended dimensions, will be easy to handle when going up or down ladders, and will weigh little more than its contents.



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What this book is

This book is written by an expert ... a practical builder who knows the game from top to bottom. It tells how different materials are shown on blue prints, how "sections" and "elevations" are shown on plans, how to lay out a building from a plan, how to take off quantities ... and all the other interesting and important facts regarding blue prints. The book is as easy to read as your newspaper ... written in plain, everyday English that everyone can understand. "How to Read Blue Prints" will be mighty helpful to you. Aside from the real help it gives you it will show you how clear and plain and easy the Chicago Technical Builders Course is ... how quickly you can learn in your spare time .. at home ... to become a building expert.

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Please send me your Free Books and Blue Prints for men in the Building Trades. Send postpaid to my address below.

[Write or print name plainly]

Name.....

Address.....

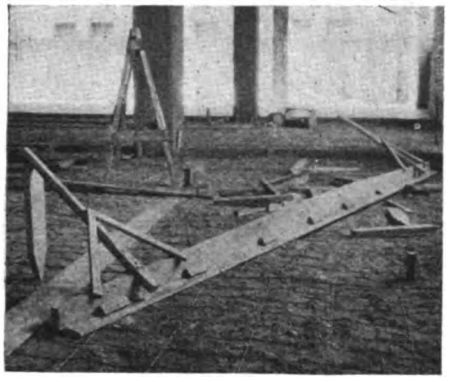
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On the Job with the Construction Editor

Smoothing Concrete Floors

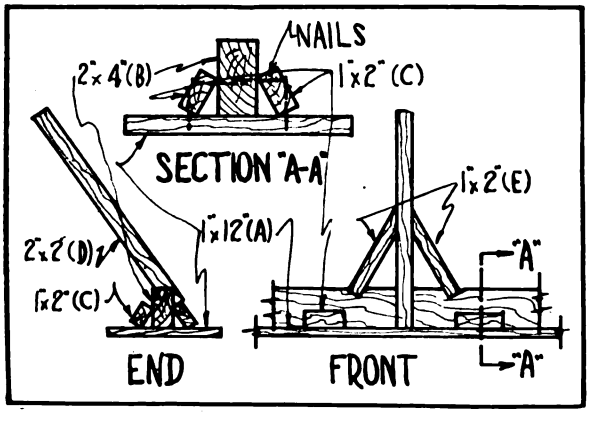
SHOWN here is a two-man float which is useful for smoothing a concrete floor of a large area just before the finisher gets to work. It may be easily



constructed from such materials as are found available on any job. It may be made in any suitable length up to about sixteen feet, depending upon the job conditions. If it is made much longer than the dimensions recommended it will be found to be unwieldly and too difficult to handle easily.

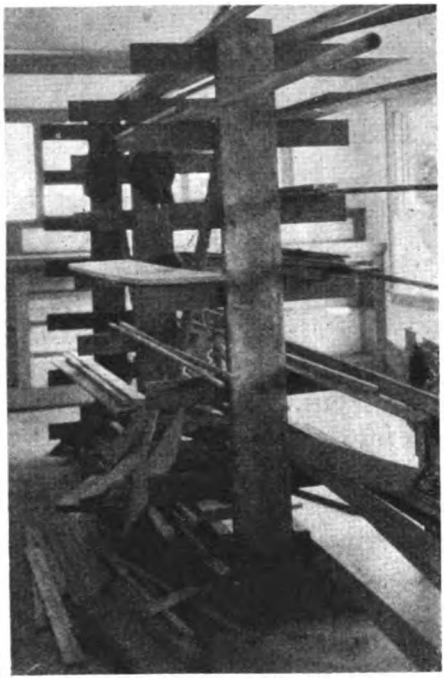
The under piece, or finishing surface (A) is a 1"x12", fixed to the 2"x4" (B) by means of small blocks or pieces of 1"x2" (C). It is essential that no nails be placed in the under, or smoothing face of the 1"x12" (A), as they would interfere with the smooth handling of float, and cause scratches in the floor thus adding to the finisher's work. The nails holding the surface (A) to the blocks (C) should not be allowed to penetrate to the under of the 1"x12" (A) for the reasons given above. The handles (D) are made from 2"x2" and are braced with pieces of 1"x2" (E) as illustrated.

If such a piece of apparatus is firmly constructed it may be taken from job to job. This does not mean, however, that very heavy timber be used in making it.



Moulding Rack

MOULDINGS, baseboards, casing, etc., have a way of getting broken or damaged if they are knocked around on a job. Damaged trim is unfit for use and represents a loss to the builder.



Hiller Bros., of Portland, Ore., use a moulding rack such as is illustrated here in order to keep the trim together and prevent its being broken or damaged. This rack may be built of odds and ends picked up on the waste pile; its cost is therefore negligible.

A little time may be required to put this rack together, but the labor is well paid before the job has progressed very far.

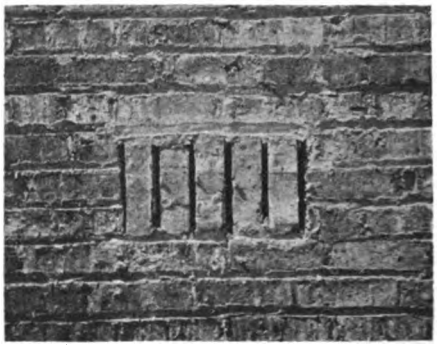
False Fireplace

THE fireplace shown here was seen on a job in New Orleans which was being done by the Enterprise Realty Co. of that city. It is built only for a gas log, hence no chimney is provided.

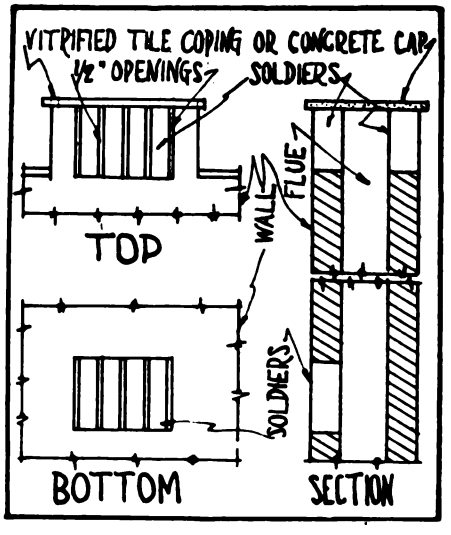
In order to carry off the burnt gases as they arise, a sheet metal flue has been provided. This flue runs all the way to the roof and thus furnishes a means of insuring adequate draft in the pipe. If required, a damper could be set in the flue to cut off the draft when the fire was not burning.

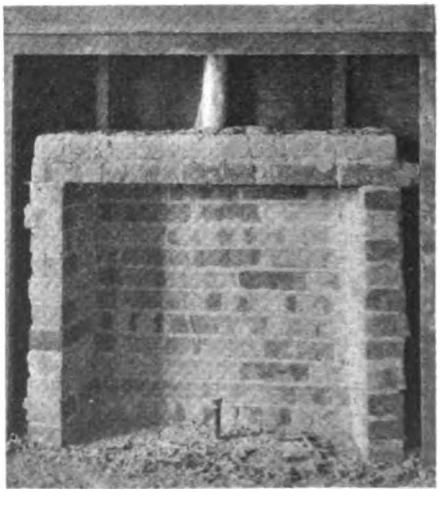
Garage Vent Flues

DEATHS due to asphyxiation by carbon monoxide gas in garages are becoming greater month by month and it



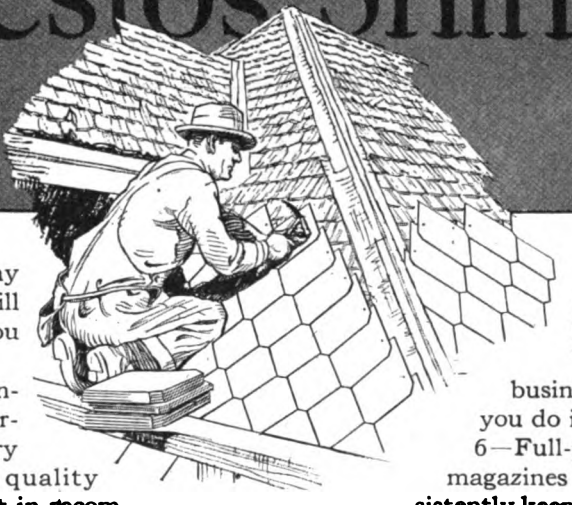
behooves the builder to do as much as he can to prevent these accidental deaths. One great help is to supply ventilation in the garage through some such method as this one shown in the two illustrations.





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Seven reasons why you can do more business with Eternit Rigid Asbestos Shingles



THERE are seven good reasons why the Eternit Shingle proposition will bring you a volume of business you never thought possible.

1—Eternit Rigid Asbestos Shingles make the beautiful, weather-proof, fire-proof roof that every home-owner wants. From a quality standpoint, you can go the limit in recommending these shingles. They will make good.

2—High though the quality is, the price of Eternit Shingles has been hammered down until you can compete with substitute roofings and make a generous profit.

3—Our financing plan lets you sell Eternit roofs on easy time-payments. With it you can land business that would otherwise get away or that you would have to carry on your books.

4—Because of our exclusive dealer policy you cash in on all the business developed in your territory.

5—Both through our field force and the home office, we keep in close touch with you. We show you how to develop business in your territory—and help you do it.

6—Full-page advertising in colors in magazines of national circulation is consistently keeping Eternit Shingles before your customers.

7—Planned production and enormous reserve stocks assure prompt service that lets you fill any demand promptly.

The best evidence of the effectiveness of the seven-point proposition is the success it is bringing Eternit dealers in other territories. Your territory offers the same opportunities. Write today for full details of the profits that are waiting for you as the Eternit Shingle Man.

Ask about Eternit Asbestos Building Lumber
—the same materials made up in sheet form.

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RIGID ASBESTOS SHINGLES

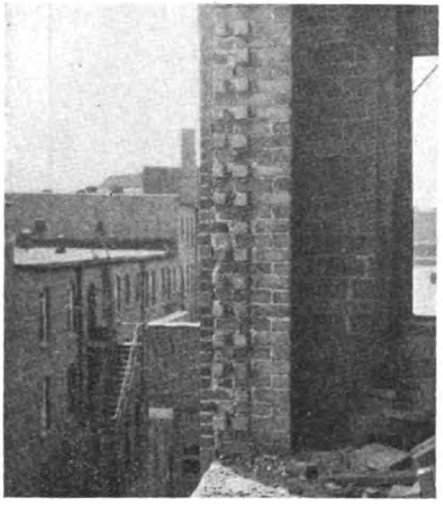
Make your first roof last

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On the Job with the Construction Editor

Brick Wall Bond

HERE is how Charles Weitz & Sons, contractors, of Des Moines, Ia., provide for bonding a brick curtain wall at the corner of another wall already in



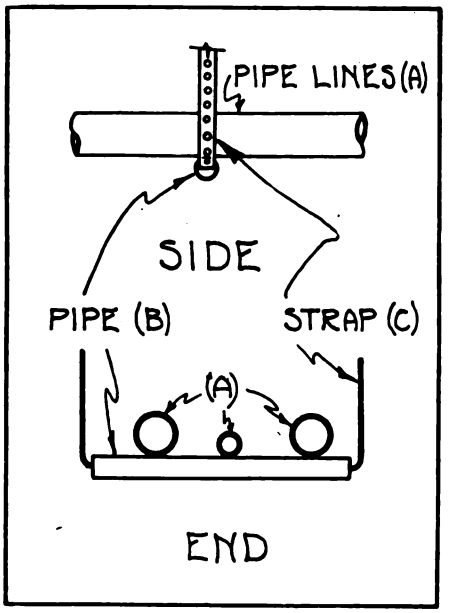
place. The curtain wall is to be 8 in. thick and to have an outside face of tapestry brick. Note also the way the outside face of tapestry brick is bonded to the wall.

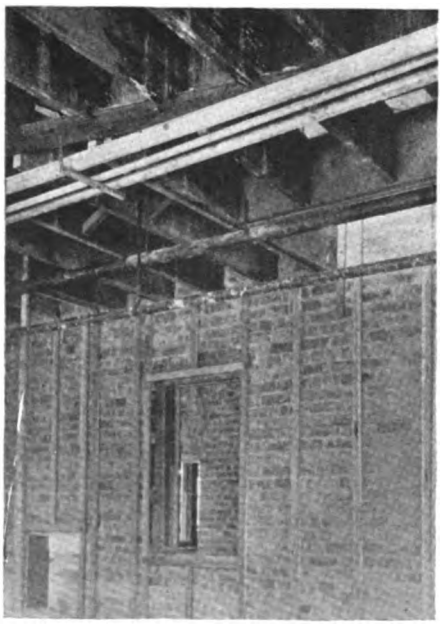
Easily Made Pipe Hangers

IN many instances it becomes necessary to hang pipes from the joists overhead. When this condition of affairs obtains, the builder may be somewhat puzzled as to just what sort of arrangement is most suitable. Many different methods of hanging pipes are in vogue, each having a special use and it may be somewhat difficult to hit on the right one at the right time.

The arrangement shown here is especially applicable to cases where several pipes of small diameter are to be hung. It is very inexpensive and requires no materials that may not easily be obtained anywhere. It consists of a short length of 1" pipe and some hanger iron such as is used for suspending heavy steam pipes. The hanger iron, or strap iron as it may be sometimes called (C), is slipped through the length of pipe (B) and bent as shown in the sketch, forming a saddle in which the pipes (A) may be carried. The ends of the strap (C) are fastened to the joists above which will carry the load of the pipes.

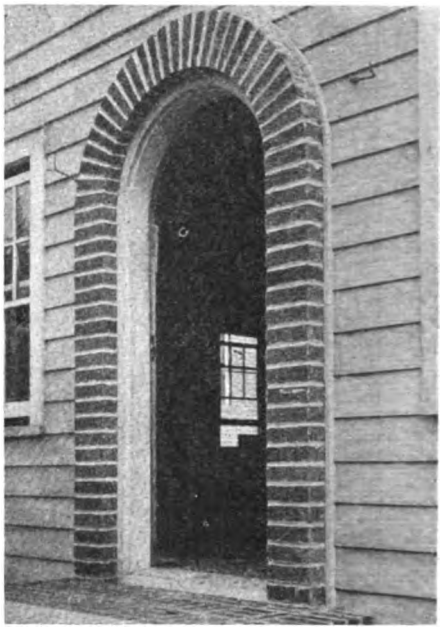
This device will carry as many pipes as strength permits.





Butting Siding to a Brick Arch

IN residence work where brick arches are used as a decorative feature of an entrance and where the walls are made



of siding, it is sometimes hard to make a good job at the point where the siding meets the arch. There are a number of methods of getting around this difficulty in a simple manner.

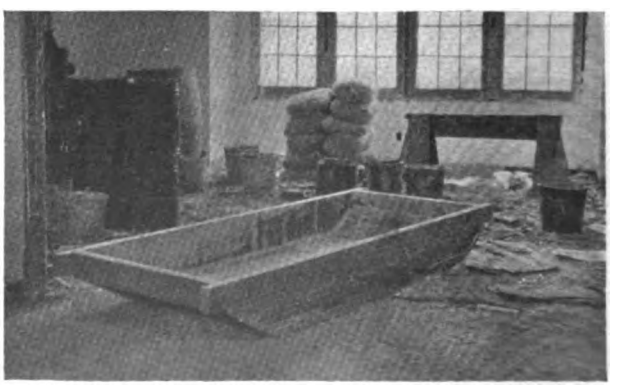
The illustration above shows how F. M. Leach, a builder of Des Moines, Ia., does it. He takes a 1x2" strip and fits it around the opening, making saw-cuts where it is necessary to curve it around the arch. This strip then provides a good base against which to butt the siding and assures a good, workmanlike job.

Plaster Mixing Box

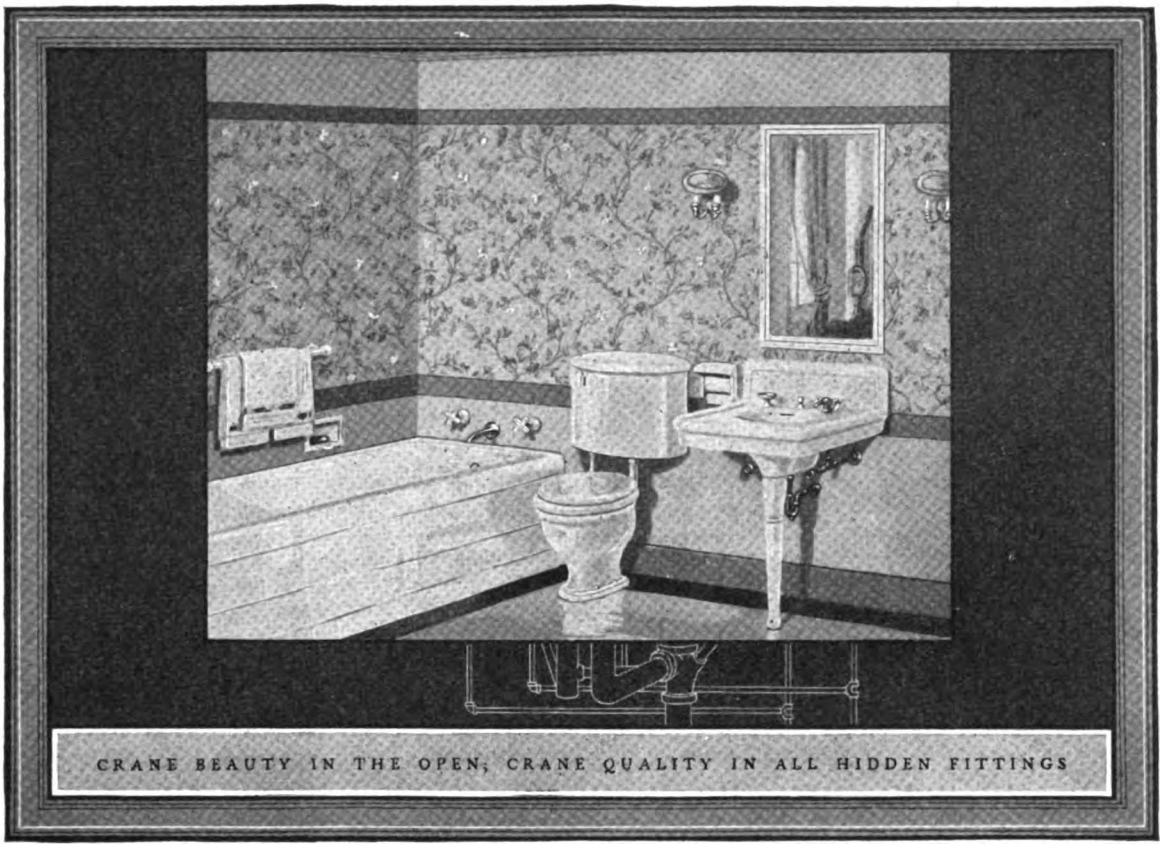
IT is customary to mix the hardening for a plaster finish coat on a flat mortar board, but this has some disadvantages since often a good bit of material is wasted by slopping over the edge of the board. The mixing box shown here will prevent waste as the material is not likely to splash over the side.

The box is made of 2" thick material and is watertight to prevent leakage. R. F. Taylor, of Rochester, N. Y., was the builder on whose job this picture was taken.

A box like this solidly constructed may be moved from job to job on the builder's trucks.



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"Houses built to sell" used to be a term of reproach implying hasty, skimped construction. Progressive builders have given the phrase a new meaning. Now, it describes houses so attractive that they sell quickly to discriminating home buyers.

Knowing that Crane bathrooms give a house an air of quality, these builders have gained a competitive advantage by installing Crane plumbing and heating fixtures as well as valves and piping.

The established Crane reputation and continuous Crane national advertising in 23 magazines and 67 newspapers help them sell or rent their houses, quickly. Build this extra sales and rental value into your new houses, apartments, and business buildings. Write for booklet.

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National Exhibit Rooms: Chicago, New York, Atlantic City, San Francisco and Montreal.
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Fixtures priced for modest homes; others for luxurious houses, apartments and hotels

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News, Notes, and Comment

Training Building Inspectors

IN the city of Atlanta, Georgia, a course in building inspection will be given at the Georgia Institute of Technology. It will be taken by members of the senior class in the Civil Engineering Department. The students will gain college credit towards graduation and the City of Atlanta will secure competent supervision of building construction, something the city finances have heretofore been unable to afford.

In a recent disastrous fire six Atlanta firemen lost their lives. Investigation showed that the building had been unsafe for a long time. Water played upon cotton waste stored in the second floor so increased the weight that the floor gave way. The new plan to supply the city with competent building inspectors at a nominal cost was worked out by the authorities of the Georgia Institute of Technology and the Atlanta Safety Council.

This is an excellent idea. Many ponderous and technically perfect building ordinances have been adopted in cities too poor to enforce the provisions through adequate inspection. In such places the students of nearby technical schools may well be trained to be building inspectors by serving as unpaid inspectors. They can be given instruction by lectures and the field work will be classed as laboratory practice. Students thus trained should be competent inspectors of public work when they graduate.

Where technical schools do not exist the members of the senior class in a local high school would benefit by such training. Later in life they will be the owners of buildings and developers of communities. Trained to know the difference between good and poor construction during their high school days they will help stop jerry building when their turn comes to build.

Measuring Strains in Concrete

STRAIN gages of the usual form have have not given the best results possible when applied to concrete. The Bureau of Standards, Department of Commerce, Washington, D. C., recently brought out what is known as an "electric telemeter" for measuring changes in the length of structural members produced by variations in the load upon the structure. The operation of the telemeter depends upon the variations in resistance to the passage of an electric current of a stack of carbon disks. The instrument is to be used shortly in an investigation of strains in mass concrete in a dam to be erected near Fresno, California.

The Structural Society

A NEW technical society, The Structural Society, has been organized in New York City. The objects are "to promote co-ordination and maintain a more perfect standard of efficiency among the professions affiliated in the doing of structural work." The headquarters are at 124 Fort George Avenue, New York, N. Y., and Sidney Kitzler, Secretary is desirous of receiving trade literature for the Catalogue Library.

London Sky Scrapers

JUST why London should not build high buildings of the skyscraper type is explained by Mr. G. Topham Forrest, F.R.I.B.A., Superintending Architect for London, England, in a recent report. Mr. Forrest was sent to America in the Fall of 1924 to study American building codes by the London County Council, which is being pressed by property owners to permit higher buildings to be erected in London.

The report may be obtained by addressing the Superintending Architect, London County Council Building, London, but in the information given out the price is not stated. Mr. Forrest gives as reasons for limiting heights the damp climate of England, the large number of dull days in the year, the lack of intense heat in the sunlight and the common use of soft coal fires. He states also that the average width of all streets in London is only 28 ft., and a width of 50 or 60 ft. is extremely rare.

Building heights in London are regulated to obtain the maximum of light and air in the rear by a system of setbacks. Heights on streets are limited to a total of 80 ft., regardless of the street width. On streets narrower than 80 ft. the height cannot exceed the horizontal distance between the fronts of facing buildings. An official in the London Building Department informed an editor of Building Age and National Builder last year that London is built to an average height of only about 45 ft., therefore an agitation for sky scrapers is premature.

Mr. Forrest in his report gives a great deal of praise to American buildings and American building codes. Many developers of property in the United States can obtain much information of value from this impartial review by a visitor who is well equipped for the task of making a study of building conditions.

A study made last year of building laws and practices in London, by an American structural engineer and architect, reveals the fact that many antiquated laws should be repealed. The building code of London is in need of drastic revision. Parliament rules all of England much as the United States Congress rules Washington, D. C. In spite of the red tape involved in getting building permits, the curious overlapping of authority in construction and the frightfully expensive methods of construction imposed, the city of London is having a genuine building boom.

Ideal Basement Planning

THE Competition for plans for an ideal arrangement of basements held by the Peoples Gas Light & Coke Co., Chicago, Ill., resulted in the award of the first prize to P. Donald Horgan. A number of interesting plans were sent in and are worth studying. The idea was to obtain a design that would be beautiful and make the basement habitable and useful.

When computing the cubic foot cost of buildings the basement space is always included. It appeared to the originators of the competition that such costly space should not be abandoned to vermin incubators, fuel and dust. Those who may wish to study the plans are advised to address. The Peoples Gas Light & Coke Co., Chicago, Ill.

Americanizing French Homes

A COMPLETE American home will be shipped to France during the month of September. During the month of August there was erected on the municipal plot on Eastern Parkway, Brooklyn, N. Y., between the Brooklyn Museum and the new Commercial High School, a model American home. The cost complete will be about $50,000. It contains ten rooms and is equipped with every labor saving device used in America for lightening the work of housewives.

Thirty-six firms have co-operated in the building and equipping of the home. It will be taken down late in September and shipped to France where it will be re-erected in the center of the American section of the International Exhibition of Household Appliances and Labor Saving Devices in the Grand Palais, at Paris.

This exhibition will be held under the auspices of the French National Office of Industrial Research and Inventions. The home will be exhibited from November 15 to December 6. It will then be taken down and re-erected for the third and last time to be a real home. It is to be presented as America's gift to the citizen of France who has been judged by a French Committee to have rendered the greatest service to humanity in recent years. The Exhibition should give manufacturers of typically American furniture and household conveniences an excellent opportunity to exhibit their wares in a country that is prosperous and shows signs of emulating America in comfort and luxury.

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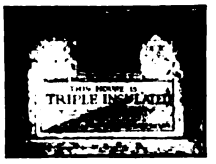
Hundreds of inquiries are coming in

The public wants the Triple Insulated Home

INQUIRIES from hundreds of home-seekers who have seen the advertisements of the Triple Insulated Home are tangible evidence of the keen interest which it has aroused. These inquiries are live prospects which we turn over to local builders to take care of.

The public wants the Triple Insulated Home because of the beauty, permanence and fire-safety of its asbestos roof, the comfort and economy of its Housline building felt, and the fuel saving of its Asbestocel heating system insulation.

The Triple Insulated Home can be built by any builder. It can be of almost any type of construction that the builder prefers. However built, it will be a more comfortable, beautiful, economical, and a safer house.



This "trade-mark" built into the cellar wall identifies a Triple Insulated Home.

It carries the prestige of a better product, the prestige of Johns-Manville reputation, and the prestige of a nationally advertised, trade-marked commodity. It is much easier to sell.

Write for complete details of our epoch-making selling plan.

The Triple Insulated Home

A Johns-Manville idea

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News, Notes, and Comment

Fire Prevention Campaign

IN connection with preparations for Fire Prevention Week, October 4th to 10th, 1925, the National Fire Protection Association have issued a 16-page booklet containing facts, text and slogans of interest to every one. Comparative figures are given to emphasize the monumental loss by fire each year in the United States. Various editorials dealing with the problem from an economical point of view are included, written by well known editors throughout the country. Particular attention is paid to the activities planned for school children.

Several score slogans compiled from various sources are aimed at the fire prevention question.

Wins Traveling Scholarship

CLARENCE W. HUNT, a graduate of the department of architecture at Carnegie Institute of Technology, Pittsburgh, has been awarded the 1925 Le Brun Traveling Scholarship, a yearly award of $1,400 to be devoted to at least six months' study in Europe. The scholarship, established by Pierre Le Brun, and awarded under the direction of the New York Chapter of the American Institute of Architects, is open to any architectural draftsman or architect between the ages of 23 and 30 who is a resident of the United States. The subject of this year's competition was a municipal building for a town of at least 150,000 population.

Cubing on Buildings

REALIZING that differences now exist among architects, contractors, appraisal organizations, bonding companies, and others concerned with the size and approximate cost of buildings as to the methods used in determining the cubical contents of any structure for estimating, appraisal and other purposes, the American Institute of Architects has appointed a committee to ascertain, codify and review the various methods now in use and prepare a report to the Scientific Research Department of the Institute.

This committee which is known as the "Sub-Committee on Cubing of Buildings" of the Structural Service Committee of the Institute is composed of D. Knickerbacker Boyd, Chairman, Dr. Warren P. Laird, Philadelphia and Dalton J. Snyder, Detroit.

It is the desire of the committee to receive the co-operation of all associations, companies and individual authorities in developing methods of cubing various buildings which may be accepted by the building industry and used by all as common basic factors.

Suggestions or information relating to this subject which will assist the committee and the industry will be welcomed. They should be sent to D. Knickerbacker Boyd, Chairman, 12 South 16th Street, Philadelphia, Pa.

Fine Ground Cement

THE result of a 10 years research on the fine grinding of cement has just been given out by the Bureau of Standards, Department of Commerce. Experiments prove that fine grinding makes concrete stronger, especially if greater amounts of cement are used with sand and gravel. That fineness is a vital characteristic of Portland cement has long been known, but data were lacking as to the exact effect of such fineness over long periods of time.

Ten years ago test cylinders of concrete were made up in variety proportions. These were kept moist 28 days, then exposed to Washington weather for a period of 10 years. Specimens broken after 6 months, and 1, 2, 3, 5 and 10 years showed greater strength compared with similar specimens made of normal strength.

National Builders' Supply Association

A BIG step at standardization through the installation of quality products in the new home has been made by the National Builders' Supply Association in adopting the Safeguard Policy of the Master House Bureau of Cleveland.

The Safeguard Policy is a document resembling in appearance an insurance policy. It enables the recording and certifying of all materials and methods used in the construction of the home. Instead of relying on only the work of the builder to convince the prospect that certain products have gone into the house, he can transmit to the buyer a record, certified under oath, in which the actual worth is recorded for all time.

As described by the Association, the Safeguard Policy is a "Pocket Encyclopedia of home construction, a guide to sound values and a means of proving them. It can be obtained at $2.00 per copy only through building supply dealers who are members of the National Builders' Supply Association."

This development is indicative of the trend for the establishment of a recognized basis upon which builder, dealer and prospective home owner may discuss the relative merits of houses.

Sesquicentennial on the Exposition

FURTHER information on exposition plans has been received to the effect that the designing work is rapidly nearing completion in the office of the exposition architect, John Moliter, City architect of Philadelphia.

The exposition site, League Island, embraces about 700 acres. It has been treated according to the most modern landscaping developing ideas to which its natural advantages have lent themselves very well.

The Civic Stadium now under way forms the principal structure in the lower eastern part of the site. The main entrance to the exposition will be on the north side of the Plaza.

Of Trade Interest

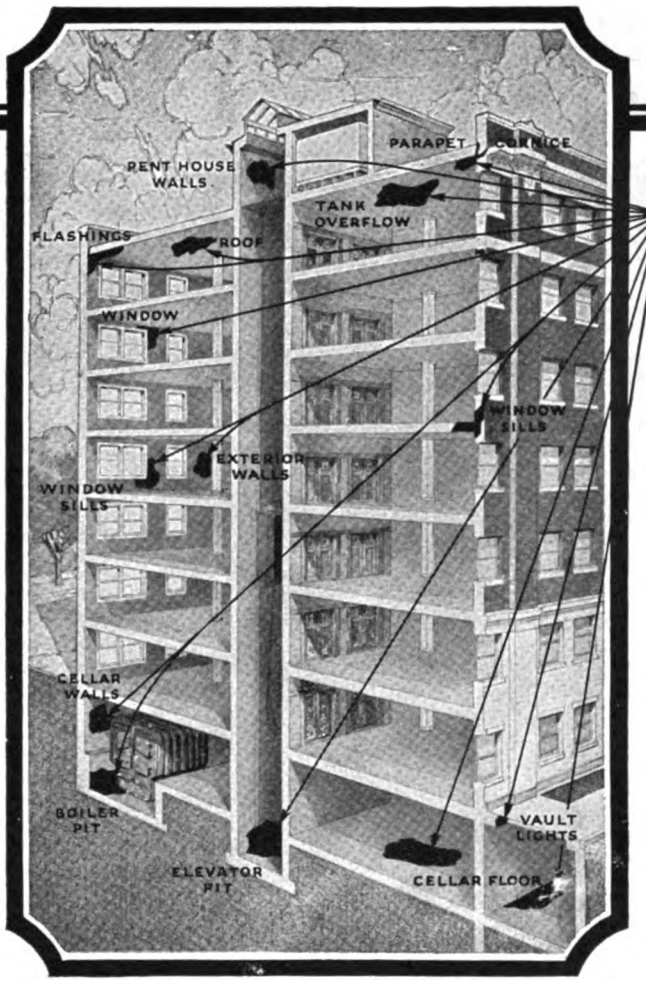
IN a recent announcement of the New Jersey Zinc Company of New York, it was stated that C. F. Patty, at present advertising manager of the company, in addition to his present office has been appointed Sales Manager of the Masters Painters Supply Co., Inc., a subsidiary of the New Jersey Zinc Company.

The Weyerhaeuser Timber Co. will shortly build lumber manufacturing plants in Longview, Wash. The location of the mills will be on a site west of Oregon Way, with a frontage on the Columbia River. News of the decision was contained in a letter from George S. Long, general manager of the Weyerhaeuser Co., to R. A. Long, founder of Longview.

The Bridgeport Brass Company, Bridgeport, Conn., have appointed E. F. Keating Company, 452 Water Street, New York City, to handle the sale of Plumrite brass pipe in the metropolitan district. The Keating Company has been established since 1885 and operates a large sales force in five borough of New York City and in the vicinity. This new company is known as the E. F. Keating Pipe Bending and Supply Company. It also manufactures and sells coils, bends heaters, pipe pressure power plant piping, service heaters and kindred products.

The Boston office of Richardson & Boynton have moved from 60 High Street to much larger and better equipped quarters on the ground floor of the Chamber of Commerce Building at 94 Federal Street. The new place has exceptional space for show room purposes and will exhibit a complete line of all R. & B. products. Several men will be attendant on the floor during business hours.

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LEAKS

Every spot a leak—every leak a mark of danger. Guard against them.

Water—Seepage—Dampness! *Their Toll is Millions!*

EVERY architect and engineer knows the destructive action of water on concrete and masonry. The yearly toll of water, dampness and seepage runs into millions of dollars.

Concrete is porous. GF Waterproofing Paste (GF 10) makes it dense and waterproof—absolutely impervious to dampness and water. It prevents spalling and cracking—checks deterioration.

Use GF 10 in uniform proportion to the mixing water—1 gallon of GF 10 to 34 gallons of water. It adds no supervision details or labor expense.

The "GF Waterproofing Handbook" gives specific, practical, and usable data on waterproofing problems. Write for it or just send in the convenient coupon.

A Few GF Waterproofing Products

- ***GF Integral Waterproofing Paste (GF 10).*** Mixed with the gauging water to waterproof mass concrete.
- ***GF Membrane Materials.*** For walls and surfaces under hydrostatic pressure.
- ***GF Transparent Waterproofing (GF 100).*** A brush coating for waterproofing concrete, stucco and masonry surfaces.
- ***GF Cement Paint (GF 102).*** For decorating interior and exterior surfaces of brick, concrete, tile and stucco.
- ***GF Damp-proofing Coating (GF 200)*** A brush treatment for masonry surfaces to be plastered.
- ***GF Plastic Cement (GF 250).*** A plastic waterproof cement.
- ***GF Crystalrox (GF 145).*** For hardening and dust-proofing new and old concrete floors.
- ***GF Cement Accelerator (GF 12).*** Quickens setting of cement and prevents freezing of mixture.

The General Fireproofing Building Products
Youngstown, Ohio

Please send me, gratis, a copy of the new "GF Waterproofing Handbook."

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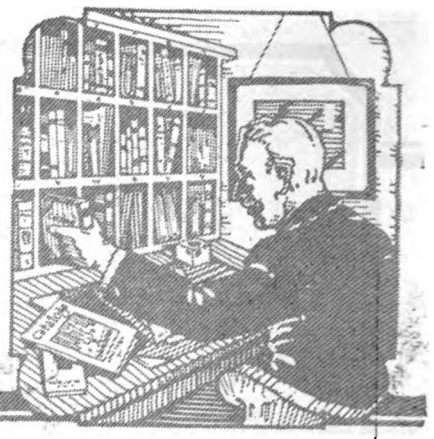
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USEFUL CATALOGS



IN the up-to-date catalog file the builder finds his contact with the building field at large. New methods, new equipment, new economies—these are all found in the thousands of manufacturers' catalogs going out every day to interested builders. Keep your library up to the minute and you will have on hand the best mediums of building intelligence. Refer to our Selected List of Manufacturers' Literature and write direct to the manufacturers or to this department.

Tumbler Switches represent the most up-to-date in wiring equipment. A new type, "Flush Pony Switch" is described in a recent bulletin of the General Electric Co., Bridgeport, Conn.

Lead Brackets find many uses in the building trade. A surprising number are found in the new and very complete catalog just issued by the American Smelting & Refining Co., San Francisco, Calif.

Canvas Roofing is suitable for the sun parlor, sleeping porch, flat roofs and other uses of the home, and can also be applied as flooring. A flexible, waterproof, canvas roofing and deck cloth that is prepared in oil and ready for painting is described in a booklet of John Boyle & Co., 112 Duane St., New York.

Safety Treads that are constructed with a lead binder in which are imbedded abrasive grains insure slip preventive qualities. Information on this type may be obtained from the Universal Safety Tread Company, 40 Court Street, Boston, Massachusetts.

Standard Frame Construction for the window assures a product that will not warp, shrink or rot. The Anderson Lumber Co., Bayport, Minn., describes in a new catalog a standard frame in seven units with a choice of 121 sizes, made of white pine in all the exposed portions. The progressive builder should be fully informed on this subject.

Collapsible Horses enable the builder to move his equipment from job to job with a minimum of difficulty. A leaflet describing this handy device is being distributed by the Taylor Collapsible Horse Co., 730 W. Harrison St., Chicago,

Concrete Mixers are obtainable in so many different types that the up-to-date builder must continually keep in touch with new developments in the field. Archer mixers are illustrated in an attractive manner in the new catalog of the Archer Iron Works, Chicago, Ill.

Woodworking Machines make possible quantity production with great economy in time and money. The "Dew-All" machine should be considered by the builder who is contemplating additions to his woodworking equipment. "If" is the name of the folder prepared by the DeWalt Mfg. Co., Leola, Lancaster, Pa.

Fireplaces are now designed to fit harmoniously into the architects conception. An interesting catalog known as the "Donley Book of Fireplaces" takes up the fireplace question from a stand point of beauty and practicability. The book is well illustrated and will prove interesting to architect and builder alike. It is published by Donley Bros., 13900 Miles Avenue, Cleveland, Ohio.

Roofing Slate is an artistic material for the most conspicuous portion of the house. One type that is specified in government contracts is described in the new catalog of Vendor-Slate Co., Easton, Pa.

Clothes Dryers represent valuable sales features from the standpoint of the speculative builder. Progressive contractors will be interested in the literature of the Victor Dryer Co., 1 Shirley Street, Worcester, Mass.

Oil Burner Equipment is becoming more and more popular for domestic and industrial use. "Home Comfort with Kleen-Heet" is the title of a new catalog of the Winslow Boiler & Engineering Co., 208 So. La Salle St., Chicago, Ill.

Electric Hammers should be included in the time saving equipment of every builder. Interesting figures on the economy to be effected are taken up in folders dealing with Syntron tools, manufactured by the National Electric Co., Chatfield-Woods Bldg., Pittsburgh, Pa.

Anaglypta is being used today to give very charming effects at moderate cost. The various treatments that may be effected are shown to good advantage in a new folder of the Murdison Company, Inc., 110 West 40th Street, New York

Boilers and Boiler Equipment should be represented in the Builders file with every up-to-date catalog. A new price list to be used with catalog "D" is now being distributed by the Bowman Supply & Mfg. Co., Inc., Pittsburgh, Pa.

Level and Transit combined saves time and money and is simple and convenient for the builder. A patent device is illustrated in the new catalog of Wissler Instrument Co., 672 No. Broadway, St. Louis, Mo.

Floor Surfacing Machines are great time and labor savers in that they accomplish the work of several mechanics in less time and with more efficient results. A catalog describing a line of such machines is issued by the Campbell Machine Co., Wollaston, Mass.

Galvanized Shingles form a durable roof and afford a great deal of protection against fire. An illustrative booklet of hand dipped and stamped shingles together with tin shinges in red or green is issued by the Cortright Metal Roofing Co., Philadelphia, Pa.

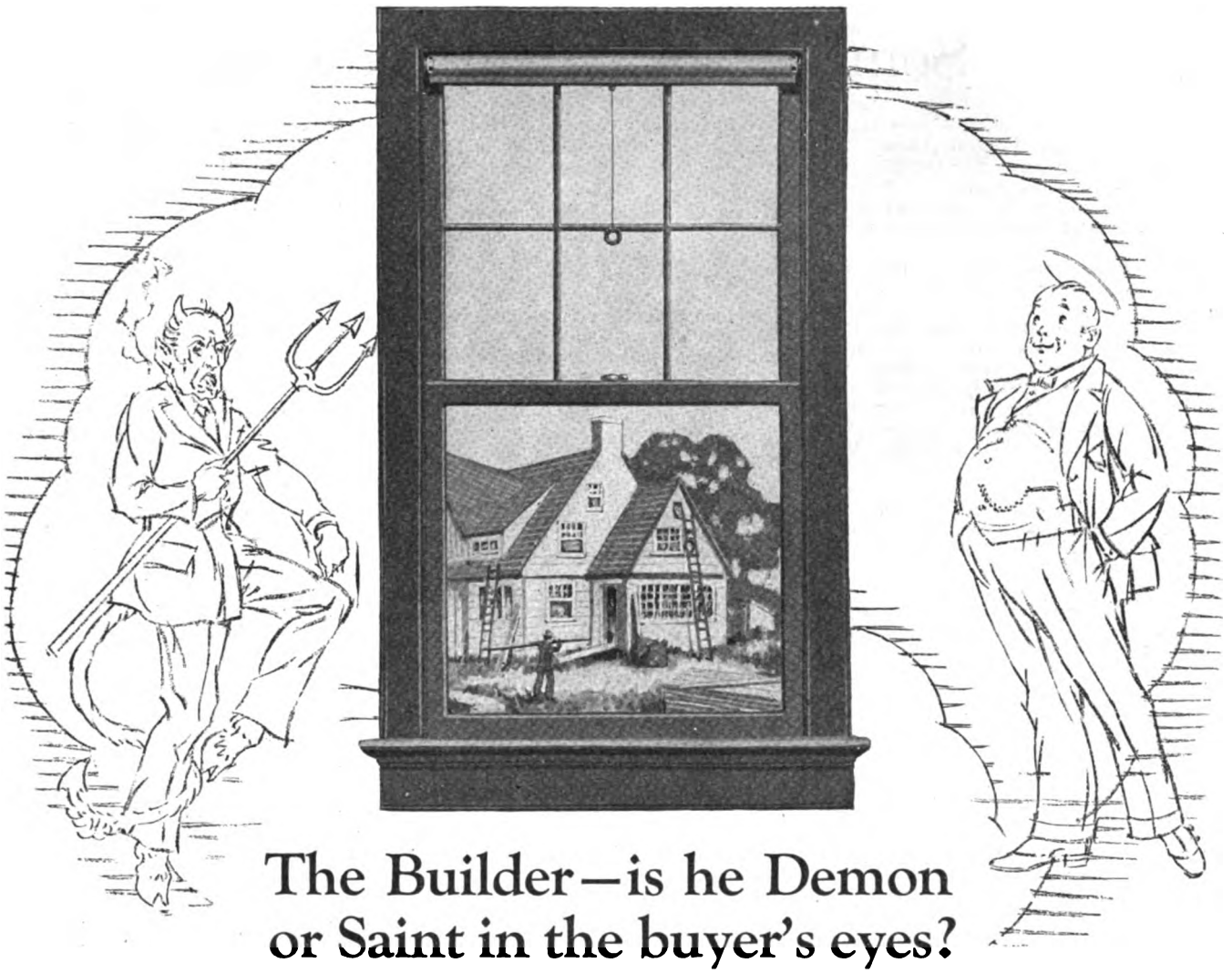
Screen Cloth can be an asset or a liability in the home. For summer work and winter shop work jobs the builder should have complete information on hand. Literature describing a cloth made of copper 99.8% pure is published by the N. J. Wire Cloth Co., 632 S. Broad Street, Trenton, N. J.

Auger Bits that will bore any part of a circle and that are guided by the circular rims instead of the center will prove a valuable accessory in the builders tool kit. A booklet giving illustrated description of their use may be had from the Progressive Mfg. Co., Torrington, Conn.

Cement for use in mortar or for masonry should be able to withstand cold and other rigid conditions. A product that meets these requirements in an entirely satisfactory manner is described in literature obtainable from the Kosmos Portland Cement Co., Louisville, Ky.

Built-in-Features include among their number the "In-the-Wall" closet for the ironing board or ironing machine. A novel little folder is obtainable from the American Ironing Machine Co., 100 E. Ohio St., Chicago.

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The Builder—is he Demon or Saint in the buyer's eyes?

It is literally true that if you equip the houses you build with Edstrom Red Tip Automatic Stop Shade Rollers you need no longer install tantalizing, irritating, inefficient shades that make you a by-word of execration.

The patented automatic stop of the Edstrom Red Tip now prevents shade annoyance. It halts the roller before the shade can "fly wild," and before it can be pulled too far down and ripped off.

Red Tip rollers preserve the shade and the temper; they are economical and efficient.

[*For full particulars, price list, etc., apply to Department 9B. Edstrom-Wetmore-Henderson Corporation, Warren, Pa., or your dealer.*]

LOOK FOR THE RED TIP

EDSTROM RED TIP Reg. U. S. Pat. Off.
AUTOMATIC STOP
SHADE ROLLERS

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Some More Useful Catalogs

Cement finds innumerable uses in the building industry. Contractors will find both interesting and valuable the comprehensive hand book called "Alpha Cement: How to Use It," published by the Alpha Portland Cement Co., Easton, Pa.

Brass Pipes insure perfect service and clean, pure water in the home and reduces the plumber's repair bill to a minimum. The ultimate savings found in brass water systems is fully taken up in literature of the American Brass Co., Waterbury, Conn.

Face Brick is playing an important part in building today. It is not, however, a new product in any sense, its history dating back to the days of Babylon as is outlined in the book entitled "The Story of Brick" published by the American Face Brick Assn., 130 North Wells St., Chicago, Ill.

Metal Shingles and Spanish Tile increase the salability of the home to an immeasurable extent. A valuable catalog dealing with this product can be obtained from the manufacturers, Edwards Mfg. Co., 423 Eggleston Ave., Cincinnati, Ohio.

Pebble Dash for stuccoed homes creates an extremely artistic effect. It is simple of application and gives a beautiful finish to any home. Literature explaining methods of application and different colors of pebbles is obtainable from E. W. Holmes Pebble Dash Co., Princeton, Ill.

Automatic Saw Sets are an incentive to the builder to keep his tools in first class condition. An introductory offer dealing with one type of such equipment is taken up in the literature of the Foley Saw-Tool Co., 912 East Lake Street, Minneapolis, Minn.

Nail Sets of the "Cant-Rol" type are handy additions to the carpenters tool case. They are obtainable in various sizes and are described in a leaflet published by the Torrington Co., Torrington, Conn.

Weatherproofing products should be described first hand in the library of informative literature of every builder. Interesting facts concerning the use of Ru-ber-oid products are taken up in a new four page circular of the Ruberoid Co., Chicago, Ill.

Water Softeners should be so designed that operation and economy are foregone conclusions. One type that can be depended upon for automatic operations is known as the **Duro**. This is made by Duro Pump & Mfg. Co., 309 Monument Ave., Dayton, O

Stove Cabinets represent a new and novel method of providing a kitchenette. Descriptive literature on this convenient feaure is well illustrated and described by Soper Sanitary Kitchen Co., 108 E. Woodbridge St., Detroit, Mich.

Wallpaper as a decorative medium has found a very strong position in the list of items to be included in the builders specifications. Interesting descriptive matter on imported wall papers, Anaglypta, and grass cloth may be obtained from W. H. S. Lloyd, 105 West 40th Street, New York

Stained Shingles may be laid over old clapboard side walls at a cost only a little in advance of that required for repainting. "Making Old Houses into Charming Homes" is the title of a book dealing with this method of treatment. The catalog is published by the Weatherbest Stained Shingle Co., North Tonawanda, N. Y.

Clothes Dryers are being installed today in many housing developments. One type, The Chicago Clothes Dryer, is the subject of a catalog sent out by the Chicago Dryer Co., 2210 N. Crawford Avenue, Chicago.

Asphalt Shingles are materials designed for protection and economy. To keep up with the constant progress in this line of building material the builder should have on hand the literature of the Ford Roofing Products Co., Chicago,

Oil Burners owe their popularity to the elimination of ashes and the ease of caring for them. "The Right Burner at the Right Price" is the name of a booklet dealing with this heating equipment and is published by the Silent Automatic Burner Corporation, 255 Meldrum Avenue, Detroit, Mich.

Window Shades are customarily included in the equipment of the new house. They should, then, be as up-to-date as the rest of the house. Forse shades are of novel and practical design and are fully described in the literature of the Forse Manufacturing Co., Anderson, Indiana.

Veneer and glue room equipment enable the builder to carry out his shop work plans in the best possible manner. A comprehensive listing of various types of clamps, etc., is published by the Black Bros. Co., Mendota, Ill.

Automatic Water Heaters make possible real home conveniences. One type of simple, durable and economical heater is described in two booklets distributed Heater Co., 5189 Wesson Avenue, Detroit, by Ever-Hot Heater Co., 5189 Wesson Avfenue, Detroit, Mich.

Sheet Steel is being promoted through literature furnished by the Sheet Steel Trade Extension Committee, Oliver Bldg., Pittsburgh.

Wallpaper Interiors to the speculative builder mean "Faster Sales and Higher Rents." That is the title of a little booklet dealing with this phase of wallpaper used as a decorative medium published by the Wallpaper Manufacturers' Association, 461 Eighth Avenue, New York.

Mantels can be obtained that fit in precisely with the particular interior desired. Complete information on these decorative features may be had from the Hornet Mantel Co., 1147 Market St., St Louis, Mo.

Curtainless Showers are finding a great deal of popular favor for apartment house and residence installation. An unusually attractive series of folders showing renderings of apartments where they have been used successfully, is published by the American Pin Company, Waterbury, Conn., in cooperation with the Kenny Cutting Products Company, 507 Fifth Avenue, New York City.

Plans contained in a book are included in the subscription offer to Keith's Magazine on building. The publishers are the Keith Corp., 100 N. 7th St., Minneapolis, Minn.

Face Brick as a decorative medium is well known in the building field. A product that has long been recognized as high grade is manufactured by Fiske & Co., 115 Federal St., Boston; and New York.

Oak Flooring, in addition to its permanent qualities is a worth while sales feature as well. A 24-page booklet describing its characteristics is sent out by E. L. Bruce Co., Memphis, Tenn.

Roofing, gutter and sheets of **Leadclad** insure permanency where this characteristic is most desirable. Installations where the product has proven its worth are described by Wheeling Metal & Mfg. Co., Wheeling, W. Va.

Fireplaces ready for installation in the new or old home can be obtained in various designs. A great many are offered in descriptive matter of Pioneer Fireplace & Supply Co., 5329 West Lake St., Chicago.

Air Brush equipments expedite painting work and are recognized time and material savers as shown by test. Interesting date to prove these economies may be obtained from one manufacturer, the Paasche Air Brush Co., 1909 Diversey, Parkway, Chicago.

Waterless Toilets and septic tanks represent necessary plumbing equipment in unsewered districts. **Sani-Equip** is the name of one type of installation that is finding favor. Manufacturers are Chemical Toilet Corp., Syracuse, N. Y.

Liquid Waterproofing is important in concrete work in that it adds to its strength and durability. By robbing the mass of its permeability it adds greatly to its permanence. Literature on Permatite Liquid Waterproofing and Permatite Dampproofing Coating may be had from Sommers & Co., Lts., 342 Madison Ave., New York.

Stucco Base makes for better stucco work and permanence. "Keylock" combines several features that will interest every builder. A catalog will be sent by the manufacturers, the Flint Rock Stucco Co., Arcade Building, Dayton, Ohio.

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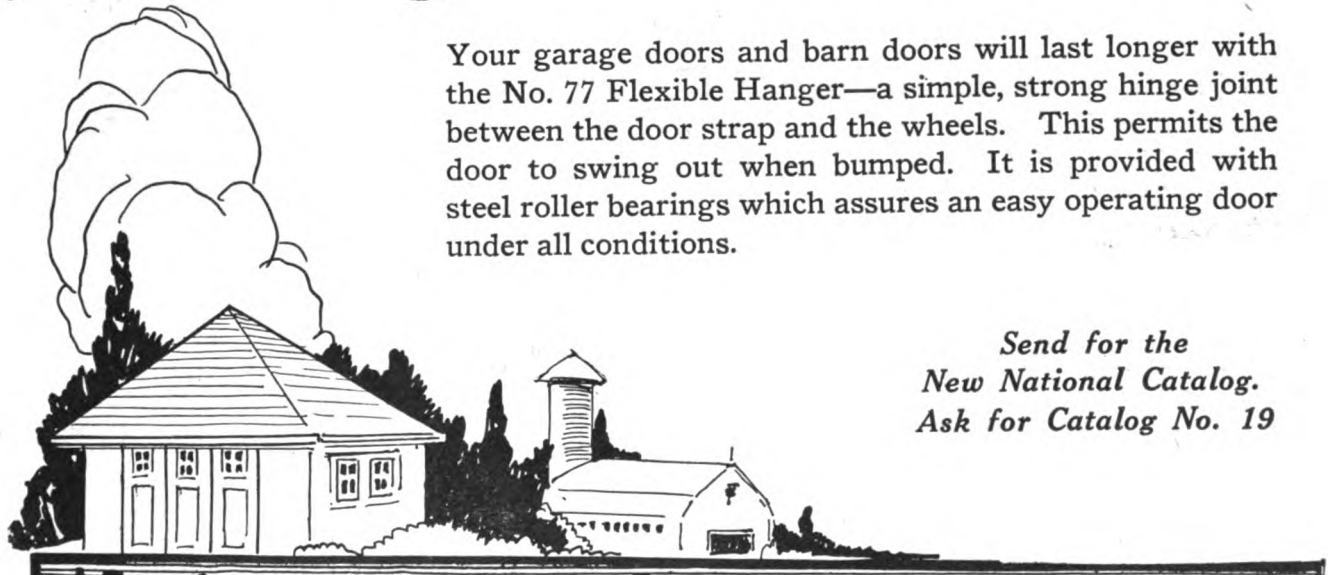
NATIONAL

No. 77 FLEXIBLE STORM PROOF DOOR HANGER



This is another of the extensive line of National Storm-Proof Hardware that means easy operated doors and assures protection to motor cars and crops. National Door Hangers are strong and durable and are made for continuous hard usage. They are easily put up and easily oiled. All parts protected from the elements—snow, rain and dust.

for Garages and Barn Doors

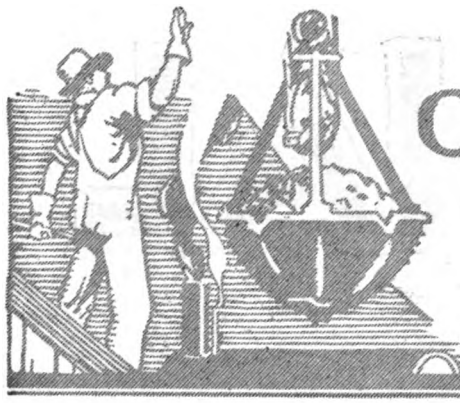


Your garage doors and barn doors will last longer with the No. 77 Flexible Hanger—a simple, strong hinge joint between the door strap and the wheels. This permits the door to swing out when bumped. It is provided with steel roller bearings which assures an easy operating door under all conditions.

Send for the New National Catalog. Ask for Catalog No. 19

National Manufacturing Company
STERLING ILLINOIS

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CONTRACTING EQUIPMENT

Reliable Information on Time and Labor Saving Devices

Hoisting Speeds for Concrete Buckets

By Morgan G. Farrell

THE manufacturer of an excellent gasoline engine extensively used by contractors, writes us asking some questions about mixing-time, hoists and power. Both questions and answers may be of interest to readers.

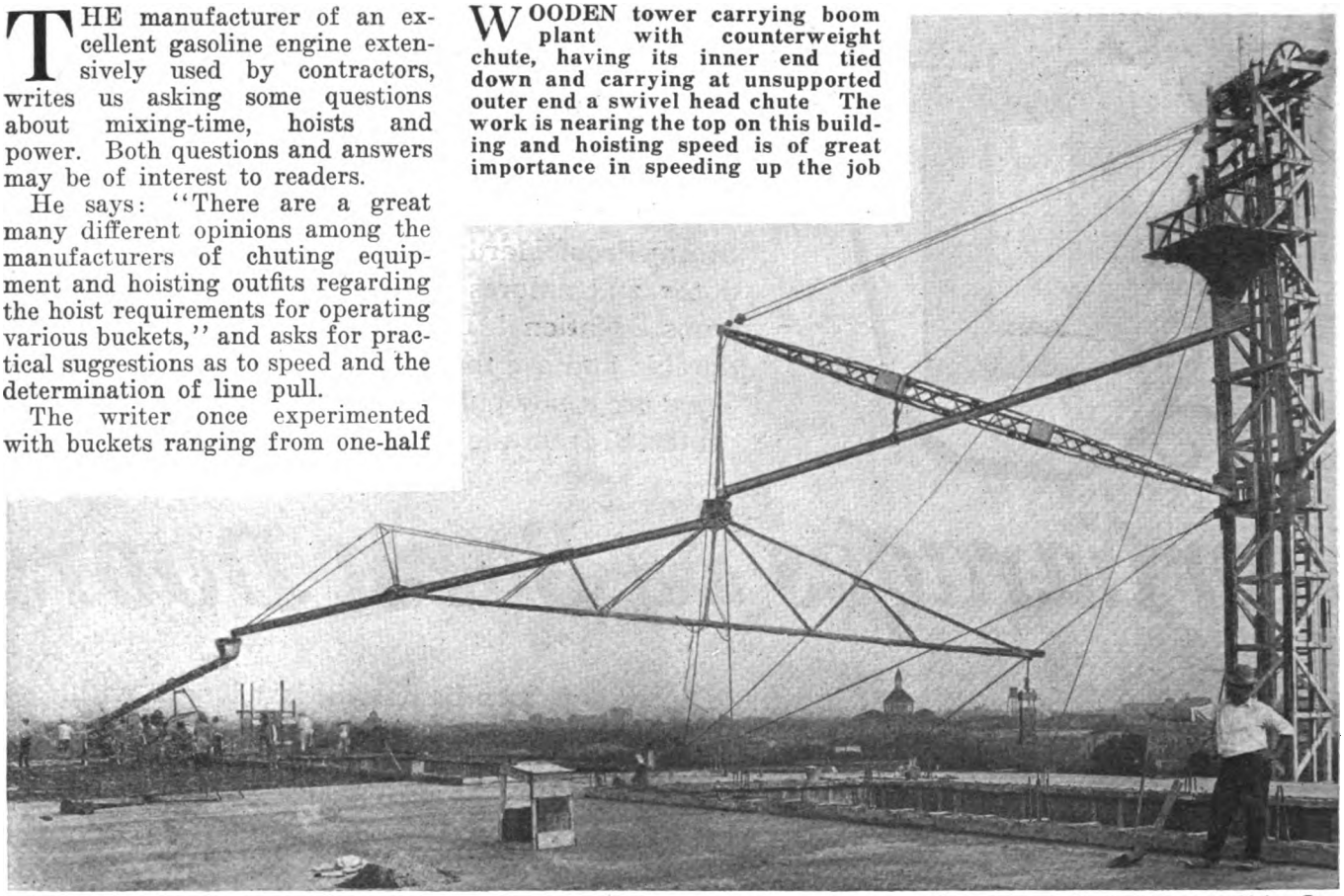
He says: "There are a great many different opinions among the manufacturers of chuting equipment and hoisting outfits regarding the hoist requirements for operating various buckets," and asks for practical suggestions as to speed and the determination of line pull.

The writer once experimented with buckets ranging from one-half to two yards capacity with a view to determining the maximum practical speed at which they could be operated, and the proper balance of the bucket which would cause it to dump by gravity when it reached the end of the nose-guide without too much shock to the tower structure.

Taking the one-yard bucket as the most common size it was found that its speed going up could be materially increased above the 150 ft. a minute then customary. Going down, the speed was in the hands of the hoist-operator. If he was clever he could let the bucket drop by gravity with just enough braking to keep it in control. At about 25 ft. from the ground he would gradually increase the brake-pressure so as to bring the bucket to rest without a heavy jar.

Elevating speeds as high as 300 ft. per minutes were tried and proved successful after the bucket balance had been corrected as described further on and after 36 in. deep-groove sheaves had been substituted for the standard size.

The objections to high speeds are: the excessively large horse-power required, vibration and strain on the towers and guys, slopping-over of wet mixes in over-balanced buckets, and the danger that an unskilled operator will not slow down enough before the dumping point is reached.



WOODEN tower carrying boom plant with counterweight chute, having its inner end tied down and carrying at unsupported outer end a swivel head chute The work is nearing the top on this building and hoisting speed is of great importance in speeding up the job

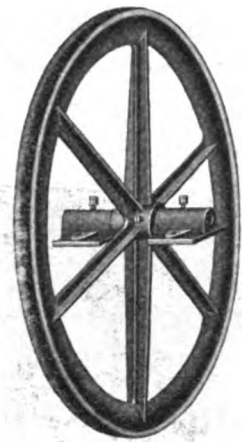
Photo courtesy Ransome Concrete Mchy. Co.

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The first objection is the most important. A one-yard bucket complete with contents weighs somewhat more than 5,000 lbs. At 300 ft. per minute, neglecting friction, this calls for:

$$\frac{5{,}000 \times 300}{33{,}000} = 45.5 \text{ H. P.}$$

At 200 ft. the H. P. is 30.4; at 150 it is 22.75 and at 100 it is 15.2.



46" Sheave Wheel

Now a one-yard mixer with batch charging hopper, water-measuring tanks and overhead sand and gravel bins, can with one minute mixing time and under the best working conditions deliver about forty batches an hour. Where the mixing time was not limited much higher outputs have been secured. Probably thirty more would be more like the average, in which case the hoist-bucket would have to make a round-trip inside two minutes.

Assuming a one-way travel of 150 ft. and a hoisting speed of 200 ft. per minute, the bucket schedule would be:

Up trip	45 sec.
Dumping and recovering	15 sec.
Down trip	30 sec.
	90 sec.

Which would leave 30 seconds for filling. With well arranged plant, an organized gang, and all apparatus kept in good condition, it is reasonably certain that this rate can be maintained. On one job 330 cu-yds. of floor slab were poured in a 10 hour all-night run. The rig was about as above, with two fifteen minute stops to shift spouting.

The writer is strongly inclined to favor high hoisting speeds, say 250 or 300 ft. for 100 ft. travel or over. The machine costs more but it is more economical in the end.

The second part of the question asked dealt with the question of friction in hoist-buckets. It would be out of place to mention names or make comparisons between the different makes. Besides our experience has been mostly with the self-dumping type.

The external friction load which the hoist must overcome is made up of:

(a) Friction of sheave-bearings,
(b) Nose of bucket rubbing against nose-guide, and
(c) Friction of guide channels against side guides.

The first is almost negligible where self-lubricating sheaves are used and where bearings are kept adjusted.

If care is not taken, however, this factor may be considerable.

The second may be quite a factor, if the vertical line through the center of gravity of the bucket is set too far forward of the vertical center line of the bucket-trunnions. The experiments referred to were made partly to determine what the distance between the two verticals should be. It was found to

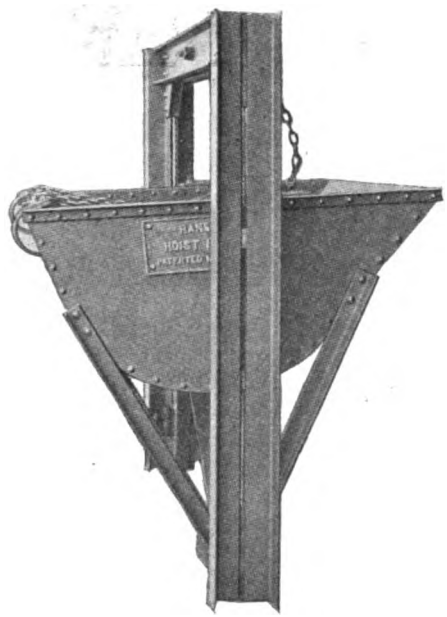


Photo courtesy Ransome Concrete Mchy. Co.

A CONCRETE hoist bucket for operation in a quick, vertical lift. This type may be used with either a wooden or steel tower

range from 1¼ in. for the half and three-quarters yard sizes to 2 in. for the larger ones. Originally the latter had been 4 in.

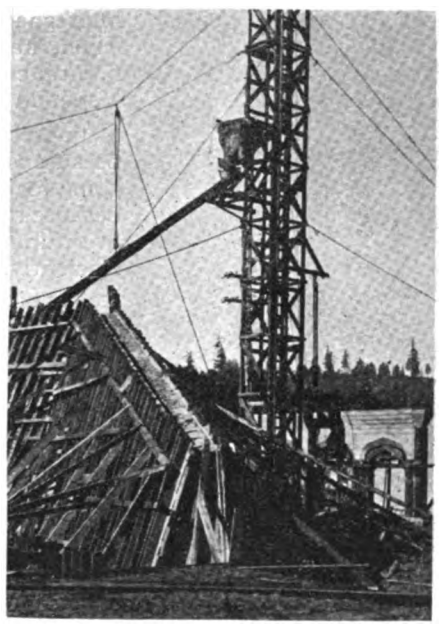
With a 5,000 lb. load and a lever arm of 2 in. the moment is 10,000 inch-pounds. As the distance from the trunnions to the center of gravity of the bucket is commonly 60 in. to 70 in., say 50 in., the pressure on the nose guide is 154 lbs. If the hardwood nose-guide is well greased the coefficient of friction should not be more than .15 so that the friction loss is only 23 lbs.

The same is true of the side-guides. But as the nose-guide takes nearly all the pressure due to the eccentric load there is very little pressure against the sides of the guides except the back thrust of the trunnions at an acute angle. All told, the friction load is not much more than 60 lbs. direct pull on the cable, which is only 1.2 per cent. of the weight of the loaded bucket. So that as far as the power plant of the hoist is concerned, it has little effect.

If the guides are allowed to become dry or the bucket is overbalanced, or the side-guides are out of line, the friction load, of course, mounts rapidly. And for the smaller buckets with hoists of low power, there may be a considerable overload on the motor. But this is not likely to occur on a well-run job.

The story is quite different, however, in the case of certain types of buckets with rollers traveling in and on channel guides, as the friction of the rollers increases rapidly with the speed and lack of lubrication. The advantage of a positive dump at the end of the travel has its compensations, however, since less is left to the skill of the operator, and there is consequently less danger of a serious accident.

Recent developments in dumping devices provide for dumping blocks which greatly cut down friction between bucket and nose guide. A wedge-shaped piece is so arranged that only when bucket nears the top, is it forced against nose guide.



HOISTING tower equipped with short, continuous line chuting plant. Speed here is more or less dependent on mixing time as the lift is an extremely short one

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BIRD'S ROOFS



Only half the roof covered, yet how much better the old home looks!

RE-ROOF with Neponset Twin Shingles—right over your old shingles! They will not only improve the appearance of your home but will give it absolute protection from rain, snow or sleet, and from flying sparks and embers.

Why are Neponset Twin Shingles waterproof and fire-safe? Because they are manufactured of long-fibred felt, saturated and impregnated, through and through, with waterproofing asphalt. Then, imbedded in the asphalt-felt, under great pressure, is natural crushed slate, straight from the quarries—in handsome Venetian Red, Lincoln Green and Blue-Black.

Neponset Twin Shingles are time savers and money savers—first, because you can lay them right over the old shingles, without going to the trouble and expense of ripping them off; second because they are self-spacing, and are more than twice the width of ordinary individual shingles. They can be laid quickly and efficiently.

Re-roof in August, with Neponset Twin Shingles.

BIRD & SON, inc., East Walpole, Mass.

Established 1795

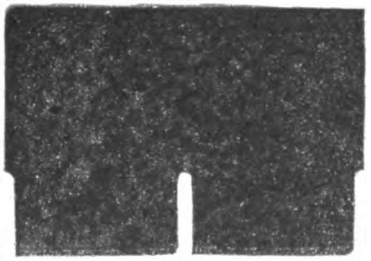
Chicago Office and Plant:
1472 West 76th Street

New York: **295 Fifth Avenue**
Canada:
Bird & Son, Ltd., Hamilton, Ont.

Bird's Twin Shingles

Bird's Four-in-One Shingles

Bird's Shingle Design Roll Roofing



Bird's Neponset Black Building Paper

Bird's Wall Board

Bird's Neponset Rugs and Floor Covering

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BIRD'S BUILDER'S BULLETIN

Here are five good reasons why you should use

BIRD'S
Neponset Black
(*Waterproof*)
Building Paper

1 *It is durable!*

Neponset Black has a glistening, asphalt coated surface that keeps out drafts and dampness and serves as a permanent barrier against the elements.

2 *It gives protection!*

Neponset Black is thoroughly saturated and impregnated, through and through, with waterproofing asphalt. It makes a watertight covering over roof boards and should be used under slate, tile, metal or asphalt shingles.

3 *It saves money!*

Neponset Black back of stucco and under clapboards or shingles will make it possible to heat the house more economically than if it is sheathed with ordinary dry paper or not sheathed at all.

4 *It is odorless!*

Neponset Black may safely be specified for cold-storage use and for ice-houses. It has absolutely no odor.

5 *You can get*

Neponset Black in a moment's notice because it is in stock everywhere. Ask us to send you complete specifications for its use, or refer to SWEET'S.

BIRD & SON, inc., East Walpole, Mass.

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WHAT'S NEW



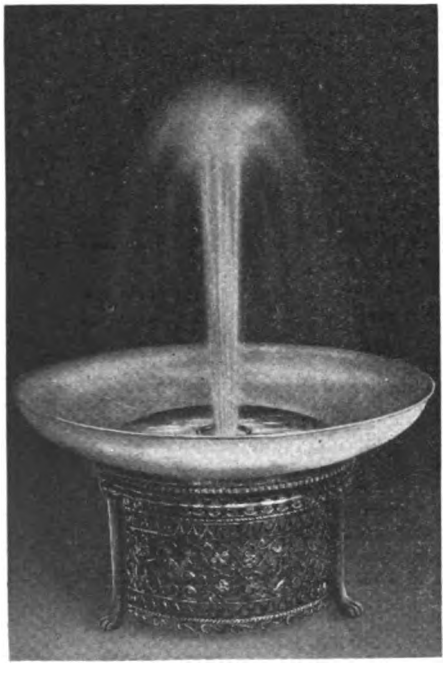
New Materials and Equipment that Keep Your Work Up to Date

Electric Fountain An Interior Feature

TRULY decorative features are of advantage in the home designed to sell and in the specially designed and built one as well. And when these features have health-conserving qualities in addition, their merits are multifold from the standpoint of builder and home owner.

Illustrated is a unit that combines utility and beautifying features worthy of attention. The effect is that of a continuous fountain while on the stream of water colored lights play, changing tints. In entrance halls, sun-parlors, conservatories, and in apartment and theatre lobbies this type will fit in most harmoniously.

Mechanically, the Fink electric fountain consists of a wrought brass base, operating motor turns over a compact, copper bowl and glass walls. A noiselessly operating motor turns-over a compact little pump circulating the same water continuously. This economy in using one supply of water over and over again is an important one in districts where water is scarce or at least expensive. On the larger models a system of colored lenses is controlled by the pump motor. Through these a "spot-light" is directed.



A very recent development is the Consol-Wall model, roughly, a semi-circular design to fit against a wall. Another is the Wall Niche Art Creation, built to conform with the present vogue of recessing as much equipment as possible in the walls of the home.

All these Fink conceptions incorporate the noiseless motor and pump unit and the same excellent craftsmanship of material and design.

In addition to being distributors for several types of electric portable fountains the John Fink Co., Inc., 104 Lexington Ave., New York City, supply the mechanical unit for installation in the owner's or builder's own design. This makes possible an entirely harmonious feature where unusual architectural ideas are being carried out.

Elaborate Dealer Help

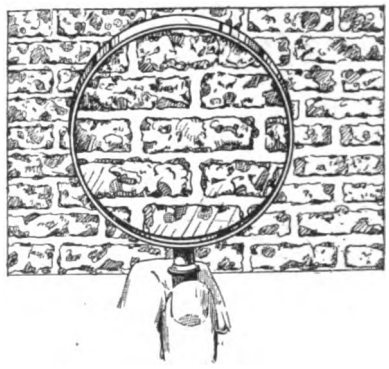
SOMETHING entirely different in the matter of dealer helps is being provided in a new brochure of the Wallpaper Manufacturers' Association of the United States, 461 Eighth Avenue, New York City. The compilation comprises 16 pages in multi-colors and treated with unusually fine typographical results.

While the work deals primarily with the National Advertising of the Association, the whole is directed at the consumer through the Wallpaper dealer and the builder. A few pages present harmonious room interiors of wallpaper handled in various manners and with various types of furniture settings.

Then are illustrated the national magazines in which wallpaper is being given publicity as a decorative medium. Builders who are anxious to cooperate with prospective home owners by aiding in the selection of interior decorative treatments will find the work of unusual interest. Obviously, a great deal of effort has gone into the preparation of this dealer help and the results bear out the faithful attempt to be of assistance to builder and dealer alike.

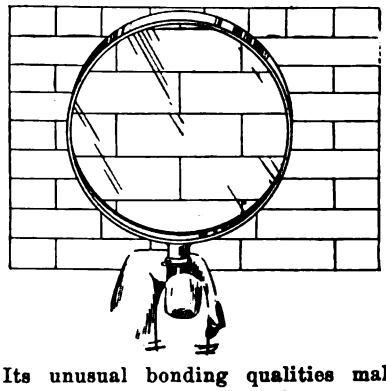
Perfected Bonding Material

PROMISING a satisfactory solution to the refractory problem, a new material, "Brikset," is being introduced for use with electric furnace fire brick.



Both of these products are manufactured by Chicago Fire Brick Company, 111 W. Washington St., Chicago.

The bonding material is natural flint clay, having the same coefficient of expansion and contraction as the company's fire brick and with a fusion temperature of 3320° F. It has withstood long furnace run without reduction in resistance and manifested very little reaction with iron, sulphur or any ingredients of coal, oil or wood.



Its unusual bonding qualities makes for hairline joints and a homogeneous mass of fire brick. The illustration brings out to advantage these benefits; and shows the result of an inferior fire clay and too wide joints, the other shows a "Brickset" installation with hairline joints insuring uniform expansion.

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"—and here's our bright basement"

"Isn't it bright and airy—almost as light as the rooms upstairs? It's one of the reasons why we bought the house."

A bright, airy Fenestra basement is one of the big advantages that home-buyers are looking for today. They want the whole basement flooded with light. They want a bright, airy laundry, a furnace room where they can see, and they want a playroom in the basement for the children.

Why not give your prospective home buyers what they want? Why not when Fenestra Basement Windows cost no more than wood windows? Why not when they will help you sell the houses you build?

But there are other reasons that interest the builder. Fenestra Basement Windows are easy to install in brick, hollow tile, concrete block, poured concrete or field stone. They come complete—sash and frame with hinges and lock attached. Dealers everywhere carry them in stock ready to deliver with your other foundation material.

You'll find similar advantages in Fenestra Casement Windows and in Fenestra Garage Windows. We've prepared interesting literature covering all Fenestra products—you can get it by calling on the Fenestra Dealer in your town or by writing us.

DETROIT STEEL PRODUCTS CO., B-2252 E. Grand Boulevard, Detroit, Mich.
Factories in Detroit, Michigan, Oakland, California, and Toronto, Ont., Canada
For Canada: Canadian Metal Window & Steel Products, Ltd., 160 River St., Toronto, Ont.

Fenestra

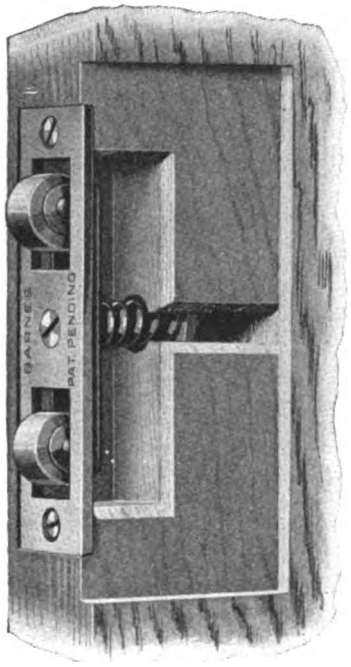
for homes and apartments
schools and institutions
commercial buildings
all industrial structures

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What's New in Materials and Equipment

Simple Sash Holder

IN accordance with the general trend of replacing window weights with sash holding devices, a new product has been introduced by the Barnes Lock &



Sash Holder Company, 217 W. 10th St., Indianapolis, Ind. It is a simple device built to be installed in a few minutes on either old or new sash.

The composition is of brass for protection against weather and climatic conditions. It is specially designed to eliminate the space on either side of window frame formerly necessary to hold sash weights. The entrance of cold air and dust through this space is eliminated.

The illustration shows the ease which the device may be installed and also the method of operation. Literature giving more details has just been published.



Simple Garage Door Holder

NOT infrequently automobiles are damaged while entering the garage when doors swing closed.

A simple, practical device designed to prevent swinging doors from slamming shut is a set of Door Dogs, made by the Richards-Wilcox Mfg. Co., Aurora, Ill. This device consists of a sturdy pin, which, when the doors are closed, fits into a slotted metal holder fastened to the inside of each door. When the doors are opened the pin is simply dropped down with the foot. The pin holds on concrete, wood, or any kind of drive.

Portable Crane for Light Trucks

TO meet the constantly growing demands for a light truck-crane combination, a new type has been developed, to be mounted on Mack trucks of 1½, 2 and 2½-tons capacity. The International Motor Co., 25 Broadway, New York, who manufacture the Mack truck, are also the makers of this new type of crane.

The versatility of the appliance is brought out to good advantage in the illustration. There the crane is lifting a 1,000-gallon fuel oil tank, weighing 1,500 pounds. Loads up to 2,500 pounds can be handled with this same unit.

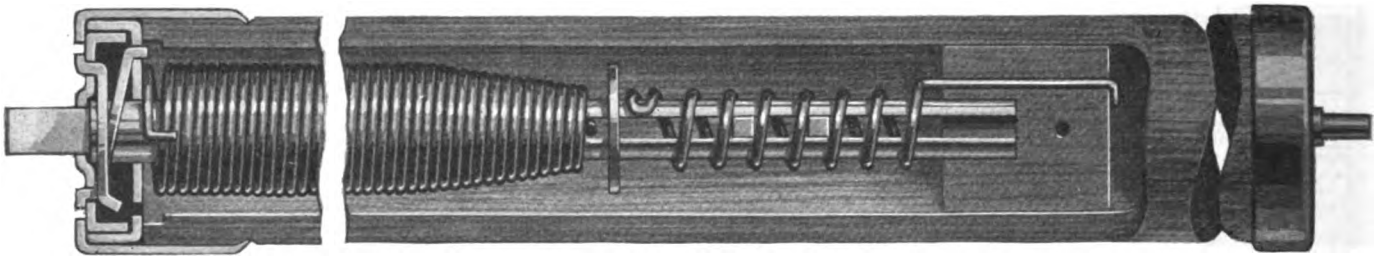
Actual equipment consists of a mast, braced and anchored to the chassis frame, a special drum-winch and two booms. Power is supplied the winch from a power take-off through a one-speed forward and reverse gear and chain drive to the winch-worm sprocket. Controls are located directly behind the cab together with an auxiliary gas control which permits operator to vary engine speed while at the control levers.

Entire assembly may be mounted on any standard Mack truck with but little alteration to body and none to cab.

While this equipment was designed primarily for use on unloading fuel oil tanks it has proven equally adaptible for other work.

New Type of Shade Roller

IN the Red Tip Roller, an automatic stop controls the mechanism of the roller, permitting it to revolve only in certain limits, fixed before it is hung.



This feature puts the device in an enviable class among building accessories with promise to eliminate much of the difficulty that was found in the very early type of shade roller.

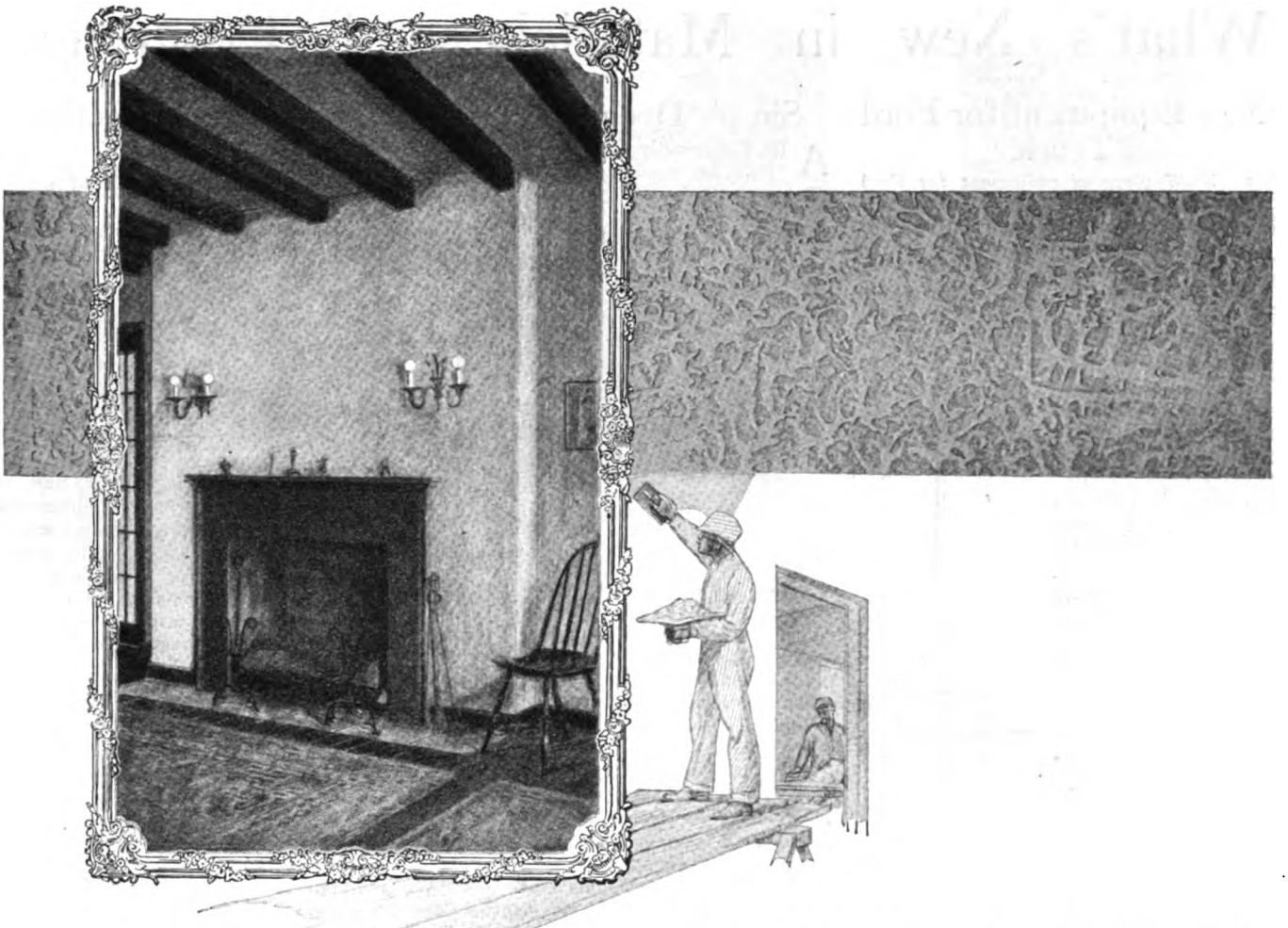
The manufacturers, Edstrom, Wetmore, Henderson Corporation, Warren, Pa., recommend it upon the basis of usability and permanence.

When the shade is released from the hand and let fly upward, the roller automatically stops revolving just as the bottom of the shade reaches the height for which a stop has been set. On the other hand, then the shade is pulled down, the roller is held by an automatic stop before shade is entirely unrolled, in consequence, it is impossible to rip the shade by pulling it down too far.

The ratchet, which itself is made on a new plan, is protected against accumulation of dust and dirt and entangling threads from edge of the shade.

The coil which operates the automatic stop and the roll spring are made of steel spring wire. Together with the new ratchet mechanism, they are mounted on a heavy steel shaft, set in suitable bearings and insuring smoothly acting rollers.

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Nowhere Else In All the World

IN the magnesium limestone deposits at White Rock, Ohio, nature has provided a rock that is acknowledged the best for producing finishing lime. Nowhere else in all the world has its equal been found.

The snowy whiteness of *Tiger Finish* is due to this natural advantage *plus* a process, perfect in its completeness, which removes all acids, iron, sulphur and inert matter. The result is a lime finer than flour, which makes a putty that spreads like warm butter and covers more yards of wall surface.

See Sweet's or write us for full particulars about the lime that *"Spreads like warm butter"*

The Kelley Island Lime & Transport Co.
World's Largest Producer of Lime
Leader-News Building
CLEVELAND

TIGER FINISH WALLS

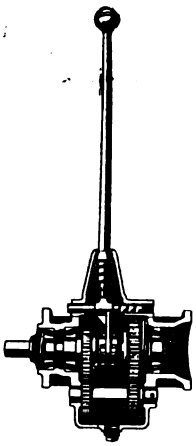
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What's New in Materials and Equipment

New Equipment for Ford Truck

A NEW piece of equipment for Ford trucks that has successfully met various requirements is found in the Warford "Tee" which provides selective four speed transmission.

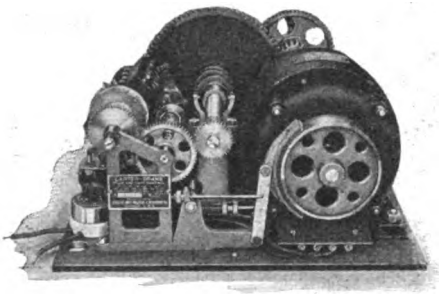
The outstanding feature of its design is the perpetual engagement of transmission gears. Meshed at the factory, hey remain so, with one gear running free on the spline shaft when the transmission is in neutral. No dogs or rotating keys are left to jam or lock its operation. A small sliding gear with twelve half-round teeth engaged gears on the shaft and rotates with it, being moved by the shifter fork against the idle transmission gear. In this way these half-round teeth mesh with corresponding depressions milled into the shoulder of the transmission gear, constituting in effect, an integral gear.



Three-point suspension, which contributes so greatly to Ford success, has been faithfully carried out in the new Warford transmission. There is provided a greater range of speed and a decided quickening of power.

Simple Door Operator

A DEVICE easily attached to any door, gate or window for opening and closing it by electricity is offered by



the Streeter-Amet Weighing & Recording Co., 4101-4105 Ravenswood Ave., Chicago, for use on both public and private buildings.

It is a device that will operate any door that can be operated by hand, using a ¼ H.P. motor operating on direct or alternating current. Dry cells are used to actuate the operating switch while line current furnishes power for the motor.

As many operating stations as desired may be installed. This feature is particularly desirable in the case of a garage. A control post in the yard enables driver to open and close garage doors without leaving his seat.

The mechanism is known as the Carter-Crane Door and Gate Control. The illustration shows the unit, capable of operating doors weighing up to 3,000 pounds.

Effective Promotion Medium

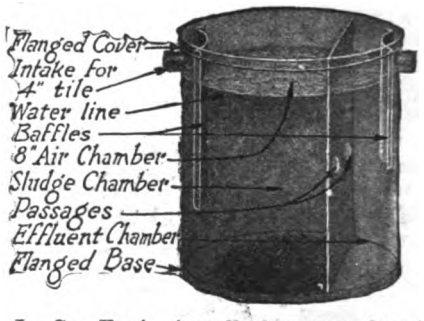
EVERY successful means of promoting the interests of dealers is found in the 4-page illustrated letterheads distributed by the Oak Flooring Bureau, 828 Hearst Bldg., Chicago. The aim is simple; dealers and floor layers are given plentiful supplies of these letterheads to us as their own.

The result is that the Bureau's representatives are given the benefit of attractive business stationery (in colors) without cost to them. The second and third pages carry a message regarding oak flooring in remodeling work and the fourth page a decorative cut representing the trade mark of the Bureau. On the first page is shown an unusually fine interior with space for dealer's use.

The increasing demands from dealers for more of these illustrated letterheads have thoroughly demonstrated their business-getting qualities.

Effective Sewage Disposal

UNSCREWED districts have in the last few years received an immense amount of attention on the part of those who are working out this phase of sanitation. The home owner today considers efficient sewage disposal a necessary requisite of health and comfort.



In San-Equip installations are found the results of several years of research and improvement. Their principles of operation are based on the chemical treatment of sewage. Then, a self-drain feature automatically disposes of the liquefied sewage after contact with a solvent.

The only movable part is a simple churn type plunger operating to a septic tank. The tank illustrated is made of 12 & 14 ga. copperoid iron enamelled against rust. The use of an iron tank for sewage treatment has been made practical by perfecting the San-Equip process for proofing tank against rust—using a mineral enamel, melted on.

The manufacturers emphasize several features in this type of equipment. First, no emptying or handling of sewage is necessary. Only a small amount of sterilized liquid is discharged daily thus insuring sanitation. No valves and only one movable part are provided thereby cutting down repair requirements.

Improved Low Cost Wood Worker

THE cost of operation and upkeep are very low from the builder's standpoint in the case of South Bend portable woodworkers, the product of Koontz Brothers Electrical Company, South Bend, Ind.

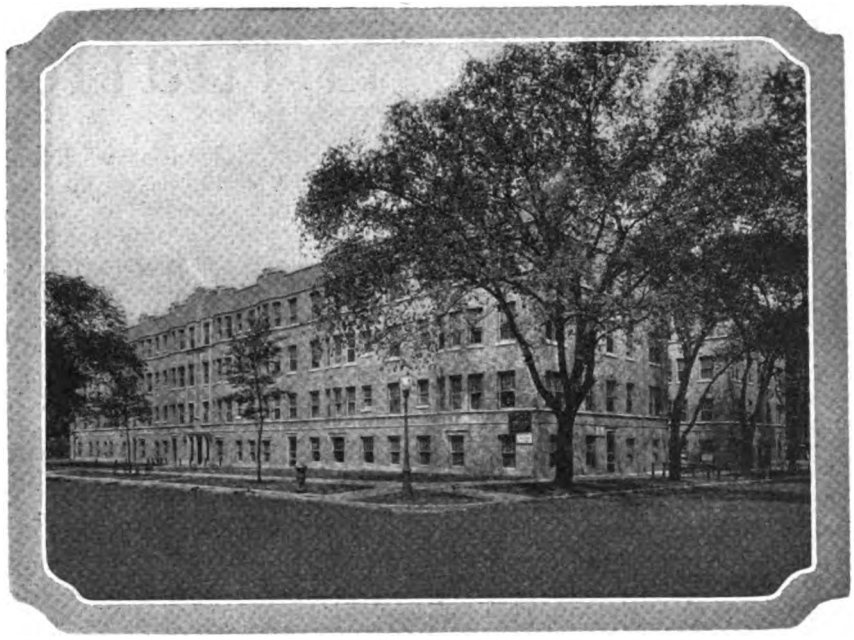
The estimated cost per hour, including depreciation of interest at 8 per cent is .0036 cents per hour. The cost to operate, figuring current at 8c per kilowatt hour, is 4½c per hour. Upkeep is low by reason of the arbor shaft fitted with ball bearings and these bearings protected in such a manner that a carborundom or emery wheel can be used without harming the bearings.

Specifications include three-quarters horse power motor taking current from an ordinary light socket; an arbor shaft driven by a two inch belt from motor; a cross cut guide and a ripping guide: an eight inch diameter saw for either ripping or cross cut; a guard, an exhaust fan and a waste bag.

The complete machine is assembled from high grade parts, machined and fitted. Accessories are designed to cover many possible usses to which unit may be subjected.



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Flax-li-num forms a definite part of this magnificent apartment building. This apartment was built and is owned by Mr. Chas. F. Henry and is located at 4601 Malden Ave., Chicago, Illinois.



Flax-li-num is made solely of flax—for the toughness and everlasting qualities of pure linen fibres; felted into semi-rigid sheets—for rope-like strength and flexibility; and made one-half inch thick for walls and one inch for roofs—to give the protection against heat and cold that fifteen years of laboratory and field work has proven necessary.

How You Can Make the Universal Desire for Comfort Pay a Profit

MONEY, health, wisdom, beauty, COMFORT and success. These are the basic human desires. And to you the desire for comfort holds great possibilities for profit.

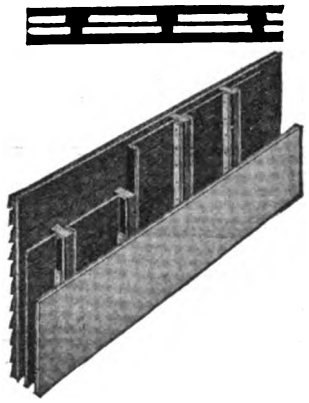
To own a permanent, comfortable home is the ultimate aim and ambition of almost every man. Whether you build to order or only for resale, do not overlook the factor of comfort. Provide it. Make it a part of every building by using **Flax-li-num**—the **correct** building insulation.

For **Flax-li-num does** provide comfort. Built into side walls, ceiling and roof, this thick heat-resisting material makes a building heat-proof during the summer. The heat of the blazing sun cannot saturate the walls and roof and soak through to the interior. As a result, upstairs rooms as well as first floor rooms are always cool.

During the winter **Flax-li-num** keeps the heat from leaking out through the walls and roof. Consequently, an even, comfortable temperature without drafts is more easily maintained with from 25% to 33 1/3% less fuel.

Write to the sales and engineering departments of this company for information as to how you, too, can "cash in" on the desire for comfort by the use of this effective insulating material.

FLAX-LI-NUM INSULATING COMPANY
ST. PAUL, MINN.



Easy to handle and install without cracking, breaking, crumbling or warping. Makes air tight joints around all the uneven and irregular places in house construction.



One-half inch of Flax-li-num in outside walls and one inch in the top story ceiling keeps the heat inside from saturating the walls and ceiling and being lost into the outside air. In summer Flax-li-num prevents the rays of the sun from saturating the roof and making the upper floor rooms hot and unlivable. The Flax-li-num lined house requires less radiation and a smaller boiler. It burns several tons less fuel each winter.

Flax-li-num

THE MARK OF THE WELL BUILT HOUSE



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Review of Building Situation

JULY marked the highest record for that month on record when the total reached $529,000,100 (exclusive of the Gulf District). According to F. W. Dodge Corporation, the increase over July last year was 53% while the amount was practically the same as June, in itself a record. Residential took 42 per cent of contracts awarded and public works second with 14 per cent. Contemplated new work reported amounted to $702,431,300, 63 per cent in excess of July, 1924.

In New England the total, $58,259,300, represents the highest monthly total on record, an increase over June of 36 per cent and over July last of 98 per cent. Residential and educational took 35 and 23 per cent of this amount respectively.

The $121,937,900 total reported in New York District was 40 per cent over that of last year. It was the highest July total on record and practically equal that of June.

Contracts awarded in Mid-Atlantic District amounted to $48,271,900, an increase of 8 per cent over June and 16 per cent over July last. It included 59 per cent for residential and 11 per cent for public works. New work was $80,423,700, a substantial increase over June and July last.

Pittsburgh District reports a total of $103,570,600, representing not only the highest July on record but also the second largest monthly total. The increase over June was 65 per cent and over July, 1924, 135 per cent. New work was reported to be $72,528,000, 60 per cent in excess of July last.

Contracts in the Middle West totalled $100,264,700, a 29 per cent increase over July last and a decrease from June. 40 per cent was taken by residential work and 21 per cent by public works.

In the Northwest contracts awarded during July reached $8,957,900, 28 per cent over the July 1924 total. Residential contributed 43 per cent of this and industrial 14 per cent. Contemplated new work, $13,483,800, was an increase of 26 per cent over June and 87 per cent over July last.

Reports from Southeastern District showed a total of $87,701,800, the highest monthly total yet recorded for that district. It exceeded June by 18 per cent and July 1924 by 53 per cent. New work was $157,054,500.

Texas reported $18,106,300 in contracts awarded, 61 per cent over a year ago. 42 per cent was attributable to residential, 27 per cent to commercial and 17 per cent to public works.

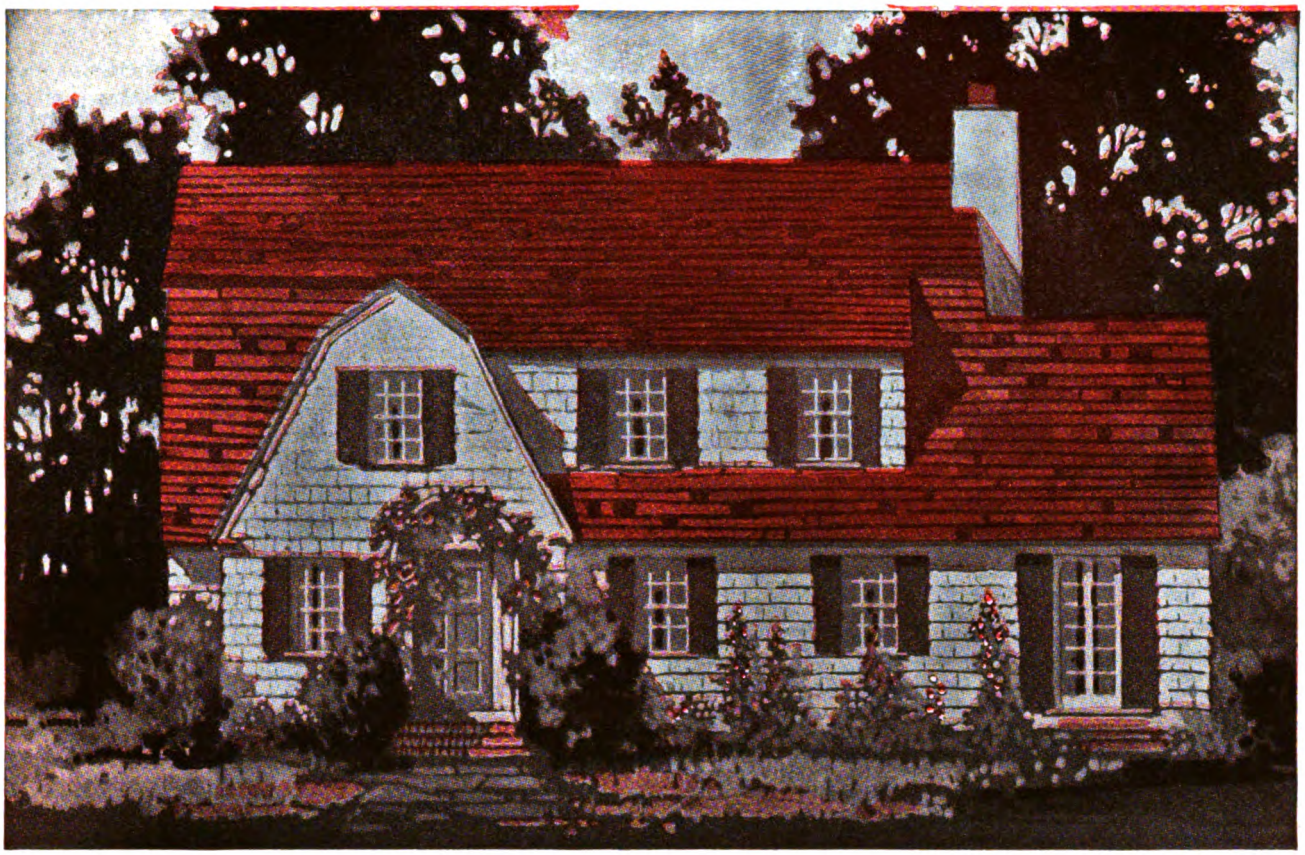
Record of July, 1925, Building Contracts Awarded

Classification of Buildings	SECTION OF COUNTRY: New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North West District	South Atlantic District	Gulf District	Totals
Commercial Buildings	$9,833,100	$23,467,600	$4,706,800	$6,355,100	$11,849,400	$631,400	$10,322,500	$4,866,200	$72,032,100
Educational Buildings	13,416,200	6,266,800	2,368,800	13,429,300	9,458,700	1,068,400	11,563,800	1,218,200	58,790,200
Hospitals, etc	930,000	1,552,000	726,900	1,225,000	3,055,600	99,500	1,016,500	171,000	8,776,500
Industrial Buildings	3,026,500	5,172,500	3,701,500	34,992,500	5,051,800	1,214,500	4,988,700	342,500	58,490,500
Military and Naval	.....	.....	.....	.....	132,700	.....	100,000	.....	232,700
Public Buildings	765,600	388,500	46,600	216,100	420,200	17,700	1,162,000	20,000	3,036,700
Public Works	4,728,200	8,182,000	5,398,700	16,293,000	20,763,200	907,500	16,470,800	3,111,600	75,855,000
Religious & Memorial	1,664,900	2,042,000	1,446,500	2,947,000	4,490,500	506,000	2,273,300	563,500	15,933,700
Residential Buildings	20,456,500	69,468,500	28,710,300	25,334,600	40,457,900	3,885,100	36,399,600	7,568,000	232,280,500
Social & Recreational	3,438,300	5,434,000	1,165,800	2,778,000	4,584,700	627,800	3,404,600	245,300	21,678,500
Total	$58,259,300	$121,973,900	$48,271,900	$103,570,600	$100,264,700	$8,957,900	$87,701,800	$18,106,300	$547,106,400

Building Projects Contemplated, July, 1925

Classification of Buildings	SECTION OF COUNTRY: New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North West District	South Atlantic District	Gulf District	Totals
Commercial Buildings	$5,651,200	$35,797,500	$7,291,600	$9,788,000	$19,425,400	$1,088,900	$15,828,900	$2,196,700	$97,068,200
Educational Buildings	5,475,000	7,164,800	2,984,400	3,782,000	7,868,800	1,775,000	20,555,100	1,009,100	50,614,200
Hospitals, etc	2,285,000	13,657,000	1,733,000	169,000	2,335,600	589,500	1,847,700	136,000	22,752,800
Industrial Buildings	2,588,000	5,191,100	5,251,500	3,696,500	7,544,300	820,500	19,236,700	213,900	44,542,500
Military and Naval	223,000	3,000	100,000	.....	164,100	.....	190,000	.....	680,100
Public Buildings	700,000	3,220,000	214,000	357,000	808,700	1,083,000	837,000	92,000	7,311,700
Public Works	2,395,500	19,640,100	6,245,300	20,936,400	37,997,900	2,785,200	30,554,600	1,875,100	122,430,100
Religious & Memorial	1,355,900	1,527,700	3,089,000	1,299,000	4,056,000	189,000	3,560,600	603,000	15,680,200
Residential Buildings	20,750,300	92,172,400	50,120,400	30,373,600	59,724,500	4,988,700	52,699,800	4,792,200	315,621,900
Social & Recreational	1,347,000	5,604,000	3,394,500	2,126,500	12,266,500	165,000	11,744,100	280,000	36,927,600
Total	$42,770,900	$183,977,600	$80,423,700	$72,528,000	$152,191,800	$13,484,800	$157,054,500	$11,198,000	$713,629,300

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This charming small house (A. B. LeBoutillier, Architect, Boston) shows the beautiful effect of a blended red roof in Cabot's Stained Shingles, Wall Shingles in Old Virginia White and Trimmings in Double White.

Cabot's Creosote-Stained Shingles

The Highest Grade Shingles Ready-Stained with the Highest Grade Stains

The Highest Grade Shingles: Red Cedar shingles made from selected lumber of the great cedar forests of the far Northwest, and according to the strictest specifications of the Shingle Associations—straight grain, uniform thickness, non-warping, perfect-fitting, durable, heat-insulating. The most picturesque and valuable exterior finish in the world, and the most economical.

The Highest Grade Stains: For over forty years the rich and artistic colors and the lasting qualities of Cabot's Creosote Shingle Stains have been the standards of shingle-stain excellence. No one even claims to make better stains than Cabot's.

Genuine Wood-Preserving Creosote: Cabot's Stains are made of Cabot's genuine refined Creosote, which thoroughly preserves the wood. "Creosote is the best wood preservative known."

You don't have to accept Poor Shingles or Poor Stains. Cabot's Qualities are guaranteed —and they cost no more.

Send for Stained Cedar Samples showing wood and colors, catalog, and full information. Free.

Cabot's Old Virginia White

The original brilliant white stain. As bright as new whitewash and as lasting as paint.

Cabot's Double-White

Whiter than white lead paint. Two coats cover equal to three of lead and oil. A true *flat* white for all kinds of work, exterior and interior.

Samuel Cabot, Inc., Manfg. Chemists
135 Milk St., Boston, Mass.
342 Madison Ave., New York
5000 Bloomingdale Ave., Chicago

Cut out here

Please send Stained samples and catalog as above.

Name .....

Street .....

Town and State.....

My Lumber Dealer is.....

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Selected List of Manufacturers' Literature

For the Service of Builders, Contractors Architects and Engineers

THE publications listed in these columns are the most important of those issued by leading manufacturers identified with the building industry. They may be had without charge, unless otherwise noted, by applying on your business stationery to BUILDING AGE AND NATIONAL BUILDER, 239 West 39th Street, New York, or the manufacturer direct, in which case kindly mention this publication. Either the titles or the numbers may be used in ordering. This list is an editorial feature maintained for the convenience of our readers. It is not a part of the advertiser's contract and BUILDING AGE AND NATIONAL BUILDER assumes no responsibility for its correctness.

(See also Alphabetical Index, page 248)

AIR TOOLS—See Tools, Air

ALUNDUM FLOORS—See Flooring Composition

ARTISTS' MATERIALS—See Drafting Materials

ABBESTOS PRODUCTS

Asbestos Shingle, Slate & Sheathing Co., Ambler, Pa.

2281. *Ambler Asbestos Shingles.* Catalog. 44 pp. Illus.

2282. *Ambler Asbestos Corrugated Roofing and Siding.* Catalog. 36 pp. Standard Purlin Spacing Tables.

2283. *Ambler Asbestos Building Lumber.* 32 pp. Illus.

2284. *Engineers' Data Sheets.* 44 pp. Illus. Specifications for Ambler roofing and siding.

Johns-Manville, Inc., 292 Madison Ave., New York.

3551. *Johns-Manville Products.* Catalog. 16 pp.

Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City N. J.

4121. *Shingles That Last.* Illus. Deals with metal and asbestos roofing.

4123. *Asbestos Roofing and Colored Asbestos Shingles.* Literature.

ASBESTOS ROOFING—See Roofing Materials

ASH DUMPS—See Dampers, etc.

ASH HOISTS—See Hoists

AXES—See Edge Tools

BAND SAWS—See Woodworking Machinery

BAR BENDERS AND CUTTERS

Koehring Co., 31st and Concordia Sts., Milwaukee, Wisc.

3711. *Koehring Bar Benders and Cutters.* Folder. 4 pp. Illus

3712. *Koehring Booklet.* Lists complete line of products.

BATCH BOXES—See Mortar Boxes

BATHROOM ACCESSORIES—See Bathroom Fixtures

BATHROOM FIXTURES

Chemical Toilet Corp., 801-21 Free St., Syracuse, N. Y.

5641. *Sani-Equip Septic Tanks and Waterless Toilets.* Booklet. Illus. Describes a chemical toilet installation for unsewered districts.

Crane Co., 836 S. Michigan Ave., Chicago.

2845. *Homes of Comfort.* 100 pp. Presents complete line.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.

3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.

Johnson Plumbing Supply Co., 3641-43 S. Halsted St., Chicago, Ill.

3571. *Johnson Catalog.* Illus. Covers entire line of plumbing and bathroom equipment, boilers, valves, and radiators.

Kenney-Cutting Prod. Corp., 507 5th Ave., New York.

3631. *Kenney Curtainless Shower.* Catalog A. Illus. Concerns several types of curtainless showers.

Wheeling Sanitary Mfg. Co., Wheeling, W. Va.

5041. *Descriptive Literature.* Treats of the combination bathtub.

BEDS, DOOR—See also Built-In Features

American Bed Co., 18th St. and Park Ave., St. Louis, Mo.

2071. *Out-O-Site.* 20 pp. Treating of portable, disappearing beds.

Concealed Bed Corp., 434 Garland Bldg., Chicago.

2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these concealed beds.

2772. *The Book of Beds.*

2773. *Rooms Without Walls.*

Murphy Door Bed Co., 22 W. Monroe St., Chicago.

4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments. Contains data on steel and wood cabinets, ironing boards, steel kitchens, etc.

BENCH GRINDERS—See Grinding Machinery

BITS—See Tools

BLACKBOARDS—See Slate

BLOCK MACHINERY—See Concrete Machinery

BLOWERS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.

2343. *Descriptive Literature on Blowers.* Illus.

BLOW TORCHES

Combination Blow Torch Mfg. Co., 2805 W. Van Buren St., Chicago.

5591. *Literature.* Describes combination blow torch, soldering iron, and branding iron.

Everhot Mfg. Co., Maywood, Ill.

3032. *Everhot Blow Torches.* Circular.

BLUE PRINT—See Drafting Material

New York Blue Print Paper Co., 102 Reade St., New York.

4161. *General Catalog.* Illus. Includes complete line of drafting materials, surveying instruments, rules, etc.

Peerless Blue Print Co., 341 5th Ave., New York.

4271. *Peerless Catalog.* Illus. Comprises descriptions of surveyors', builders', and draftmen's equipment.

BOILERS—See Heating Equipment

BOOKS—See also Plans

Audel & Co., Theo., 63 West 23rd St., New York.

2321. *Helping Hand Books for Mechanics, Engineers, Electricians and Builders.* 32 pp. Illus. Describes Audel Hand Books.

Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.

2711. *How to Read Blue Prints.* Booklet. Illus. Includes plans.

2713. *Building Construction.* Booklet. Descriptive Literature.

Keith Corp., 100 N. 7th St., Minneapolis, Minn.

3601. *Keith's Magazine.* Monthly. Subscription offer of $3.25 includes 278-page De Luxe edition, "Beautiful Homes."

Walker Co., Frank R., 536 Lake Shore Drive, Chicago.

4881. *How Practical Forms Increase Contractor's Profits.* Illus. Catalog. 64 pp. Describes all their books and forms.

BRACKETS—ROOFING, ETC.

Ajax Building Bracket Co., 1551 Rydal-Mount Rd., Cleveland Heights, O. (formerly Ajax Bracket & Outlet Co.).

2021. *Ajax Folding Metal Sheathing and Roofing Bracket.* Illus. Leaflet describing assembling steps and use.

Elite Mfg. Co., Ashland, O.

3011. *Scaffold Brackets.* Catalog. Deals with application of product. Includes prices.

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.

3172. *Gabriel Folding Brackets.* Descriptive literature.

Richards-Wilcox Mfg. Co., Aurora, Ill.

4427. *Descriptive literature.* Includes prices.

Seaman Safety Bracket Corp., Rochester, N. Y.

4541. *Why Take Chances?* Illus. Catalog. 24 pp. Gives facts relating to *Seaman Safety Brackets.*

Steel Scaffolding Co., Evansville, Ind.

4651. *Catalog C.* Illus. 16 pp. Describes *Trouble-Saver Steel Scaffolding,* giving prices.

BRANDING IRON

Combination Blow Torch Mfg. Co., 2805 W. Van Buren St., Chicago.

5591. *Literature.* Describes combination blow torch, soldering iron, and branding iron.

Everhot Mfg. Co., Maywood, Ill.

3032. *Literature.* Describes their branding iron and blow torch.

BRICK

American Face Brick Assn., 130 N. Wells St., Chicago.

2111. *The Story of Brick.* 5 pp. Illus. History and requirements of building brick.

2112. *A Manual of Facebrick Construction.* 116 pp. Illus. Types of facebrick for chimneys, etc. Price, $1.00.

2113. *The Home of Beauty.* 72 pp. Illus. 50 prize designs for small brick houses. Price, 50 cents.

2114. *Architectural Details in Brick Work.* 3 series, totalling 12 prints of brick work details. Price, $1.50 per set.

2115. *English Precedent for Modern Brick Work.* 100 pp. Illus. Plates and drawings of Tudor and Gothic. Price, $2.00.

2117. *Bungalow and Small House Plans.* 4 booklets. 50 pp. Illus. Contains 98 reversible designs. (1) 3-4 rooms; (2) 5 rooms; (3) 6 rooms; (4) 7-8 rooms. 35 cents. $1.00 per set.

Common Brick Manufacturers' Assn., 2121 Guarantee Title Bldg., Cleveland, O.

2761. *The Home You Can Afford.* 64 pp. Illus. Contains 62 designs with floor plans of houses and bungalows. 10 cents.

2762. *Your Next Home.* 64 pp. Illus. Contains 60 designs with floor plans of brick houses and bungalows. Price, 10 cents.

2763. *Farm Homes of Brick.* 24 pp. Illus. Offers 10 selected designs with floor plans of farm houses. Price, 5 cents.

2764. *Brick—How to Build and Estimate.* 72 pp. Illus. Includes brick construction data and estimating tables. 25 cents.

2765. *Skintled Brickwork.* 15 pp. Illus. Shows 7 selected houses by Chicago architects. Price, 15 cents.

2766. *Brick Silos and How to Build Them.* 40 pp. Illus. Gives information concerning silo construction. 10 cents.

Fiske & Co., Inc., 115 Federal St., Boston; New York and Watsontown, Pa.

5691. *Fisklock and other Face Brick.* Appeals to builders from popularity angle.

Hocking Valley Products Co., Logan, O.

3401. *Face Brick.* Descriptive literature.

BRIDGING—See also Metals and Metal Specialties

General Fireproofing Co., Youngstown, O.

32213. *GF Metal Building Specialties.* Folder. A. I. A. File No. 16E2. 20 pp. Illus. Includes information on bridging, etc.

BUILDING BLOCKS

Crozier-Straub, Inc., 120 W 42nd St., New York.

2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

BUILDING CONSTRUCTION

Crozier-Straub, Inc., 120 W. 42nd St., New York.

2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

General Fireproofing Co., Youngstown, O.

3221. *The Fireproofing Handbook.* 72 pp. Illus. Deals with use of fireproofing materials in building construction.

Milwaukee Corrugating Co., Milwaukee, Wis.

4001. *Metallic Construction for Modern Home.* 16 pp. Illus. Shows home interiors *with Milcor Stay Rib.*

Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.

4201. *Northwestern.* General Catalog. 16 pp. Illus. Covers complete line of Northwestern products, including Kno-Burn metal lath. *Longspan Plasta-Saver, Nemco* channels.

Smith Co., T. L., Milwaukee, Wisc.

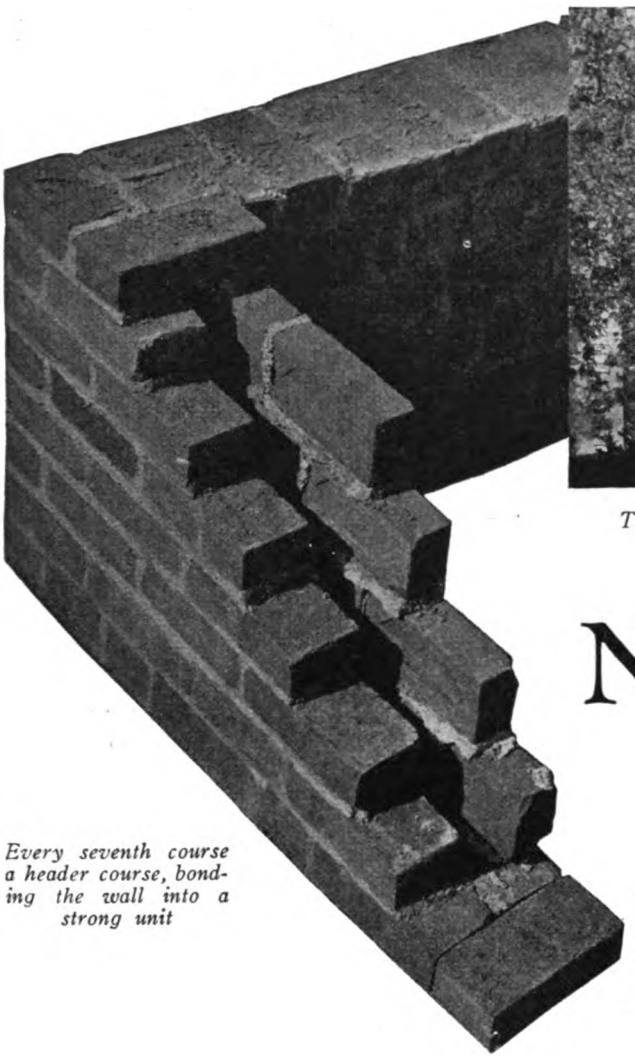
4593. *Smith Excavator and Loader.* Bulletin No. 408. Illus. Deals with operation for building construction work.

Sykes Metal Lath Co., Niles, O.

4731. *Metal Lath for All Purposes.* Illus. Booklet. 20 pp. Contains information pertaining to types of their metal lath.

4732. *Catalog and Handbook.* Illus. 32 pp. Deals with metal lath and steel building specialties, with specifications and details.

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Every seventh course a header course, bonding the wall into a strong unit



The Ideal Rolok-Bak Wall Has the Same Pleasing Appearance as Any Brick Construction

New Rolok-Bak Brick Wall

Lowest Cost and Strongest Hollow Wall Construction

Why use any but the best when you can build the Ideal Rolok-Bak wall at less cost than for any hollow back-up?

People WANT brick construction. Homes made with these standard units of burned clay are easier to sell.

6c per sq. ft. for back-up

An 8-in. wall requires only 4 brick on edge. With brick at $15 per M, that means only 6c per sq. ft. Bricklayers AVERAGE 650 brick on edge per day in an 8-in. wall containing the usual number of windows.

When you build the Ideal Brick Rolok-Bak Wall, you handle only ONE material, get a perfect bond for every brick, and have a wall superior to any veneered hollow back-up.

Send 25c for "Brick—How to Build and Estimate." It gives all details.

The Common Brick Manufacturers' Association of America

2133 Guarantee Title Building, Cleveland

Chicago.....Chamber of Commerce Bldg.
Detroit, Mich.....404 Penobscot Bldg.
Hartford, Conn.....226 Pearl Street
Los Angeles.....342 Douglas Bldg.
Nashville, Tenn.....Harry Nichol Bldg.
New Orleans, La.....904 Carondelet Bldg.

for BEAUTY with ECONOMY Build with COMMON BRICK

New York City.....1710 Grand Central Terminal Bldg.
Philadelphia.....City Centre Bldg.
Portland, Ore.....909 Lewis Bldg.
San Francisco.....811 Sharon Bldg.
Seattle, Wash.....524 Burke Bldg.

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Selected List of Manufacturers' Literature

(Continued from page 182)

Truscon Steel Co., Youngstown, O.
4791. *Truscon Floorstyle Construction.* Form D-352. 16 pp. Contains data and illustrations of these installations.
4792. *Truscon Standard Buildings.* Form D-398. 48 pp. Gives description and illustrations of these steel buildings.
4793. *Truscon Building Products.* Illus. Form D-376. 112 pp. Contains brief description of each of their products.
4794. *Modern School Construction.* Form D-395. 16 pp. Shows their products used in this type of construction.

BUILDING PAPER
Bird & Son, East Walpole, Mass.
2451. *Waterproof.* 6 pp. Illus. Describes *Neponset* building paper.
Brown Company, Portland, Me.
2531. *Bermico Sheathing Paper.* Folder. Illus. Contains samples of four different weights of Bermico. Includes name and location of local dealer.

BUILT-IN FEATURES
Alberene Stone Co., 153 W. 23d St., New York.
2031. *Illustrated literature* on soapstone laundry tubs.
Concealed Bed Corp., 434 Garland Bldg., Chicago.
2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these Concealed Beds.
2772. *The Book of Beds.*
2773. *Rooms Without Walls.*
Garden City Plating & Mfg. Co., 1430 So. Talman Ave., Chicago.
3192. *Clothes Closet Plans.* Folder. Discusses convenience and capacity of closets built with *Garcy Garment Carriers.*
Herrick Refrigerator Co., Waterloo, Ia.
3371. *Refrigerators.* Catalog. 56 pp. Illus. Describes various types of refrigerators.
Hess Warming and Ventilating Co., 1207 So. Western Ave., Chicago.
3381. *Snow-White Steel Cabinets and Mirrors.* Booklet. 16 pp. Illus. Describes *Hess* steel medicine cabinet.
Kilmoth Products Corp., 501 Union Sq., New York.
3671. *No More Folding, Packing or Mussing.* Folder. Illus. Deals with use of built-in cedar closets.
3672. *Kilmoth.* Leaflet. 2 pp. Explains Kilmoth cedar lining.
Lupton's Sons Co., David, Philadelphia, Pa.
3847. *Catalog.* Treats with partitions and other built-in features.
Morton Mfg. Co., 5133-43 West Lake St., Chicago.
5741. *Literature.* Illus. Includes prices, sizes, etc., on Acme steel medicine cabinets.
Murphy Door Bed Co., 22 W. Monroe St., Chicago
4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments. Contains data on steel and wood cabinet ironing boards, steel kitchens, etc.
Ohio State Stove & Mfg. Co., 666 Lake Shore Drive, Chicago.
4231. *The Kab-Range.* Catalog BA-3. Illus. Describes a combination of the *Packer All-Steel Kitchen Cabinet* and *Ranges.*
Wasmuth-Endicott Co., Snowden St., Andrews, Ind.
4941. *12-page Folder.* Features *"Kitchen Maid"* unit systems. Also another mailing piece, showing built-in kitchen apparatus.
White Steel Sanitary Furniture Co., Grand Rapids, Mich.
5341. *Literature.* Describes their "White-Steel" Medicine Cabinets and other "White-Steel" products.

CABINETS—See Built-In Features
CALCIUM CHLORIDE—See Concrete Process
CANVASS—See Roofing Materials
CARBURETORS—See Trucks, Motor Supplies
CARPENTERS' TOOLS—See Tools, Edge, also Tools
CASEMENTS—See Windows, also Windows, Metal
CASEMENT HARDWARE—See Hardware

CASTINGS, Iron, and Cast Products
Forest City Foundry & Mfg. Co., Cleveland, O.
3142. *Light Grey Iron Castings* and *Cast Mail Boxes.* Descriptive.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus. Covers entire line of products manufactured in the company's plants.

CAULKING AND GLAZING COMPOUNDS
Bird & Son, East Walpole, Mass.
2452. *The Handy Man's Helper.* 6 pp. Illus. Presents various uses for *Bird's* plastic cement.
Weatherproof Caulking Co., 756 Washington Av., No., Minneapolis, Minn.
4971. *Literature.* Gives information and prices.

CEILINGS
Lloyd, W. H. S., 105 W. 40th St., New York.
5742. *Anaglypta.* Booklet. Illus. Deals with line of friezes used as substitute for plaster relief.

CEILINGS, METAL—See Metals, etc.

CELLAR DRAINS—See Plumbing Equipment

CEMENT—Portland
Alpha Portland Cement Co., Easton, Pa., and Chicago.
2061. *Alpha Cement—How to Use It.* New edition of handbook. 114 pp. Illus. Deals with forms of construction.
2062. *Alpha Aids.* Illus. Periodical dealing with various phases of the industry.
2063. *Alpha Service Sheets.* Instructions on concrete construction.
Kosmos Portland Cement Co., Louisville, Ky.
3741. *For Enduring Masonry.* Folder. 8 pp. Illus. Discusses use of *Kosmortar,* a building mortar.
Lehigh Portland Cement Co., 30 E. 42nd St., New York.
3771. *Build the Castle of Your Dreams.* 32 pp. Deals with concrete home construction.
3772. *Permanent Satisfaction in Your Building.* Illus. Book. 48 pp. Treats of fire-safe farm construction.
3773. *The Lehigh Magazine.* New House monthly.
Louisville Cement Co., Louisville, Ky.
3821. *Brixment for Perfect Mortar.* Handbook. Contains data.
Pennsylvania Cement Co., 131 E. 46th St., New York.
4291. *Pennsylvania Concrete Manual.* Handbook. 48 pp. Illus. Discusses clay, reinforcing, setting time, slump test, etc.
4292. *Three Booklets.* Deal with phases of Concrete work. By Frank W. Skinner, C.E.
Portland Cement Assn., 111 W. Washington St., Chicago.
4351. *Concrete Masonry Construction.* Catalog. 32 pp. Illus. Contains consideration of approved practices.
4352. *Concrete Floors.* Booklet. 16 pp. Illus. Gives data.
Sandusky Cement Co., Cleveland, O.
5182. *Concrete Work Made Easy.* Booklet. Deals with the solution to water-proofing problems in concrete construction.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4811. *Ivory Keene's Cement.* Bulletin KC1. Gives data.

CEMENT—High Temperature
Johns-Manville, Inc., 292 Madison Ave., New York.
3552. *Refractory Cements.* 16 pp. Illus. Presents facts and data.
3553. *Acrite Boiler Wall Coating.* Illus. Discusses fuel saving.

CEMENT—Magnesite

CEMENT PAINT—See Paint, Cement

CEMENT TOOLS
Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.
2011. *Abram Double Action Long-Handled Cement Finishing Tools.* 12 pp. Illus. Shows entire line.
2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.

CHIMNEY CAPS—See Ventilators, also Metals, etc.

CINDER BLOCKS—See Building Blocks

CHISELS—See Tools, Edge

CIRCULAR SAWS—See Saws

CLAMPS
Black Bros. Co., Inc., Mendota, Ill.
2472. *Black Veneer and Glue Room Equipment.* Catalog No. 11. 16 pp. Illus. Covers the line of clamps, presses.
2473. *Gluing Clamps.* 24 pp. Illus. Gives additional information on veneer and glue room equipment.
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2951l. *Brick Clamps.* Leaflet. Illus.
Taylor, James L., Mfg. Co., Poughkeepsie, N. Y.
4751. *Catalog.* Illus. 32 pp. Lists and describes their lines of clamps; with prices.
4752. *Clamp Questions.* Illus. Pamphlet. Deals with several types of clamps and gives information as to use.
4753. *They Know.* Folder. Gives illustrations of two clamps.

CLOTH WALL COVERING—See Wall Covering

CLOTHES CLOSET FIXTURE
Garden City Plating & Mfg. Co., 1430 So. Talman Ave., Chicago.
3192. *Clothes Closet Plans.* Folder. Discusses convenience and capacity of closets built with *Garcy Garment Carriers.*
Knape & Vogt Mfg. Co., Grand Rapids, Mich.
3691. *Beautiful Clothes Closets.* Booklet. Illus.
3692. *Plans for Modern Clothes Closets.* Folder. Blue prints.

CLOTHES DRYERS
Victor Dryer Co., 1 Shirley St., Worcester, Mass.
5461. *Catalog.* Illus. Includes price list of dryers, brackets, etc.

CLUTCHES—See Hoists

COAL CHUTES
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2952. *Descriptive literature.* Illus.
Gabriel Steel Co., Bellevue Ave., Detroit, Mich.
3171. *Gabriel Chutes.* Descriptive literature.
Majestic Co., Huntington, Ind.
3901. *Six Reasons Why.* Folder. 4 pp. Illus. Explains details of Majestic coal window.
Sykes Metal Lath Co., Niles, O.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.

COLLEGES AND SCHOOLS—See Schools

COLORS, CEMENT, MORTAR, STUCCO—See Mortor Colors

COLUMN BASES
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General catalog. 46 pp. Illus. Covers complete line of Cheney products.

COLUMN AND BEAM COVERING
United States Gypsum Co., 205 W. Monroe St., Chicago.
4812. *Bulletin PT4.* Gives relevant data.

COLUMNS, IRON AND STEEL
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2958. *Stanchions for Basement.* Leaflet. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp.

COLUMNS, WOOD
Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24. pp.
Pacific Lumber Co. of Illinois, 2060 McCormick Bldg., Chicago.
4241. *Construction Digest.* Illus. Contains data and description.

COMBINATION DOOR—See Doors

COMBINATION WOODWORKERS—See Woodworking Machinery

COMPARTMENTS
Weis, Henry, Mfg. Co., Atchison, Kan.
4981. *Weisteel Compartments.* Catalog 11. Illus. Plans, specifications and details of metal partitions and doors for toilet rooms, shower and dressing rooms, hospital articles, etc.

CONCRETE ACCESSORIES
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2957. *Concrete Inserts.* Descriptive literature. Illus.
Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4201. *Northwestern.* General catalog. 16 pp. Northwestern products, including *Kno-Burn* metal lath, *Longspan Plasta-Saver, Nemco* channels, corner bead and metal waste baskets.
4205. *Designing Data.* Catalog. 94 pp. Covers complete line of *Econo* expanded metal for reinforced concrete.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletin FT3.* Deals with *Floor Voids* for use in concrete.
Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder System.* Catalog. Illus. Takes method of building double monolithic concrete walls without forms.
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section dealing with their electrically welded wire fabric for concrete reinforcement.

CONCRETE BLOCKS—See Building Blocks

CONCRETE BLOCK MACHINE—See Concrete Machinery

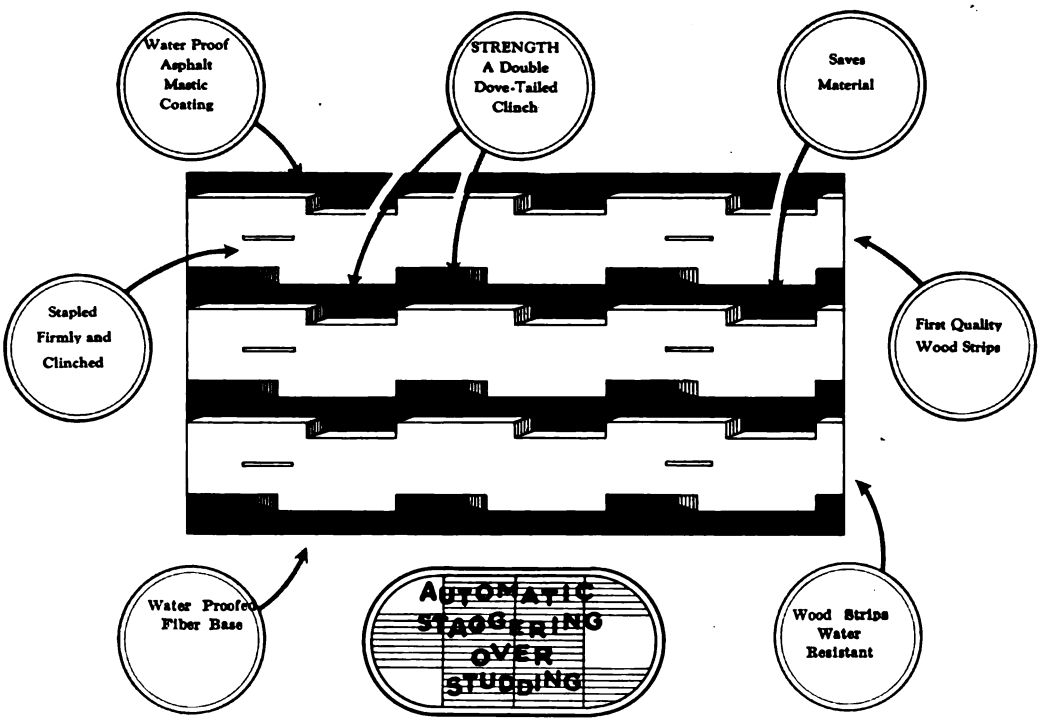
CONCRETE MACHINERY
Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.

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NEW and IMPROVED
BASE
FOR STUCCO and PLASTER





A Complete Package —Ready for Use Nails included

Can You Sell? a Product that—

—Insures good stucco construction
—Is economical to apply
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—Will not rust or disintegrate
—Saves Material
—Forms a stronger clinch as the widest part of the material is at the double dove-tailed clinch
—Insulates as well as holds the plaster
—The careful builder endorses and demands

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THE FLINT ROCK STUCCO CO.
Fourth Street Arcade Building DAYTON, OHIO

And Nets You a Nice Profit If You Can—Write us

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Selected List of Manufacturers' Literature

(Continued from page 184)

2051. *Why Stay a Little Fellow?* Folder. 4 pp. Illus. Describes the *Magic Concrete Mixer.*
2052. *The Concrete Road to Success.* 22 pp. Illus. *Magic Mixer.*

Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.

2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.

American Cement Machine Co., Keokuk, Iowa.

2101. *Boss Hoists.* Bulletin No. 117. 6 pp. Illus.
2102. *Boss Tilter Mixer.* 12 pp. Illus. Specifications.
2103. *Boss Big One Bagger.* Bulletin No. 5. Illus.
2104. *Boss Heavy Duty Type Mixer.* No. B24. 30 pp. Illus.
2105. *Boss Combination Paving and Building Mixer.* No. P9.

Anchor Concrete Mchy. Co., Adrian, Mich.

2231. *Anchor Line of Concrete Machinery.* 36 pp. Illus.
2232. *Hobbs Concrete Block Machine.* 16 pp. Illus.
2233. *Handbook* on concrete products machinery. 66 pp. Illus.

C. H. & E. Mfg. Co., Clinton & Mineral Sts., Milwaukee, Wis.

2584. *Mortar Mixers.* Bulletin. Illus.

Chain Belt Co., Milwaukee, Wis.

2681. *Rex Mixers.* Catalog No. 117. 26 pp. Illus. Deals with mixers and mixer equipment.
2682. *Rex Powers.* Catalog No. 118. 42 pp. Illus. Contains descriptions, details, and specifications of various types.

Concrete Equipment Co., Holland, Mich.

2781. *Utility Concrete Equipment.* Catalog. 28 pp. Illus. Shows various types and size of *Utility* concrete block machines.
2782. *Utility High Speed Ramming Machine.* 6 pp. Illus. Presents details of block machine.

Construction Machinery Co., Waterloo, Iowa.

2801. *The Wonder Catalog.* Covers line of *Wonder* Equipment.

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.

2971. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery in block and tile manufacture.

Ideal Concrete Machinery Co., 5000 Spring Grove Ave., Cincinnati, O.

3471. *Ideal Concrete Machinery.* Catalog No. 35. 80 pp. Illus. Describes complete line of concrete block, and brick making machines, mixers, hollow tile machines and ornamental molds.
3472. *Ideal Cincinnatus Batch Mixers.* Booklet. 26 pp. Illus.

Jaeger Machine Co., Columbus, O.

3531. *Jaeger Mixers.* Catalog. 36 pp. Illus. Covers complete line of concrete, plaster, and mortar mixers.

Koehring Co., 31st & Concordia Sts., Milwaukee, Wisc.

3713. *Dandie Mixer.* Circular. Discusses *Dandie* light mixers.
3714. *Concrete—Its Manufacture and Use.* Book. 208 pp. Treats generally on the subject of concrete.

Kwik-Mix Concrete Mixer Co., Port Washington, Wis.

3751. *Kwik-Mix Concrete Mixers.* Series of bulletins. Illus. Describes types No. 3, 3½, 4-L, 7-L.

Lansing Co., Lansing, Mich.

5611. *Lansing Equipment for Contractors.* Catalog. Illus. Lists such equipment as mixers, scrapers, barrows, hoists, etc.

Little Whirlwind Mixer Co., 438 Gould St., La Crosse, Wis.

3801. *Master Mixer.* Circular. Illus. Deals with construction and operation. Includes prices.

Miles Mfg. Co., Jackson, Mich.

3991. *General Catalog.* Illus. Presents complete *Miles* line of block and brick machines, power lampers, mixers and moulds.

Ransome Concrete Machinery Co., Dunellen, N. J.

4381. *7-S Building Mixer.* Bulletin 110A. Illus.
4382. *Standard Building Mixers.* Bulletin 112. Illus. Describes trucks, main frames, and other parts, and standard mixers.
4383. *4-S and 7-S Bantam Mixers.* Bulletin 114. Illus.
4384. *3½-S Tilting Mixer.* Bulletin 116.
4385. *21-E Paving Mixer.* Bulletin 113. Illus.
4386. *Chuting Equipment.* Bulletin 202. Illus. Gives details of construction, drawings, tables, etc.
4387. *Monkey-on-a-Stick.* Bulletin 115. Illus.

Remmel Mfg. Co., Dept. H., Kewaskum, Wis.

4391. *Remmel Catalog,* 1925. Illus. Takes up complete line *Remmel Tilting Type* mixers.
4392. *Remmel Mixers.* 2 Folders. Contains description and data.

Sheldon Mfg. Co., Inc., Box 25, Neahawa, Neb.

4561. *The "Know How" of Concreting.* Illus. Booklet. 127 pp. Contains information on various phases of concrete work.
4562. *A Series of Leaflets,* folders etc. Illus. Presents their mixers and explains their use.

Smith Co., T. L., Milwaukee, Wisc.

4591. *Smith Simplex Mixer.* Bulletin No. 409-A. 20 pp. Illus. Describes construction of Smith mixers.
4592. *Smith Non-Tilting Mixer.* Bulletin No. 405-A. 48 pp. Illus. Describes operation with details of construction.
4594. *Smith Concrete Mixers and Pavers.* Catalog. Illus. 64 pp. Gives typical operation installations, details.

Stewart Mfg. Co., 124 Rath St., Waterloo, Ia.

4681. *Catalog* 25. Illus. Contains full description of their mixers.

Universal Cement Mold Co., No. Milwaukee, Wis.

5471. *Build the Hollow Wall Way.* Literature.

Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.

5581. *Van Guilder Machines.* Booklet. Illus. Takes up method of building double monolithic concrete wall without forms.

CONCRETE PROCESSES

General Fireproofing Co., Youngstown, O.

3224. *Crystalrox.* Folder. 4 pp. Illus. Pertains to hardening and dust-proofing of cement floors.
3225. *Metallic Floor Hardener.* Folder. GF. 140. 4 pp. Illus. Relating to construction treatment for cement floor hardening.

Morene Products Co., Inc., 241 W. 28th St., New York.

5371. *Morene, the Wall Finish Distinctive; a Portland Cement Product—Atlas White.* Brochure. Illustrated. Shows examples of *Morene* used for ceiling, wall and mural decorations.
5372. *Folder.* Describes *Morene* and its use as decorative medium.

Solvay Process Co., 40 Rector St., New York.

4601. *For Concrete Summer and Winter.* Illus. Catalog. 16 pp. Describes uses of their calcium chloride for concrete.
4602. *Solvay Calcium Chloride for Concrete Construction.* Illus.

Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.

5581. *Van Guilder System.* Catalog. Illus. Describes building double monolithic concrete walls using Van Guilder machines in place of forms.

CONCRETE REINFORCING—See Concrete Accessories

CONCRETE SURFACER

Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.

2791. *Berg Surfacer and Finisher.* 8 pp. Illus. Deals with concrete surfacing apparatus.

CONDUCTOR PIPE—See Pipe, Conductor.
CONSTRUCTION, FIREPROOF—See Building Construction
COPPER—See Leaders, Flashings and Gutters
CORNER BEAD—See Metals, also Building Construction
CORRESPONDENCE COURSES—See Schools
CORRUGATED ASBESTOS—See Asbestos Products

CRANES

Koehring Co., 31st & Concordia Sts., Milwaukee, Wisc.

3712. *Koehring Booklet.* Lists complete line of products.

CRAYONS, LUMBER

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.

2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line of Aloe levels, transits, and drafting material.

DADO HEADS—See Woodworking Machinery

DAMPERS AND ASH DUMPS (FIREPLACE)

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.

3175. *Dome Dampers and Ash Dumps.* Descriptive literature.

Hornet Mantel Co., 1147-A Market St., St. Louis, Mo.

3442. *Homet Dampers.* Descriptive literature. Illus.

Sykes Metal Lath Co., Niles, O.

4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.

DAMPPROOFING—See Waterproofing, also Stucco, etc.
DECK CLOTH—See Roofing Materials

DERRICKS

Sasgen Derrick Co., 3010 W. Grand Ave., Chicago, Ill.

4531. *Circular No.* 2. Illus. Comprises descriptions of complete line of Sasgen derricks. Includes prices.

DIFFUSING GLASS—See Glass, Ornamental
DIRECT MAIL ADVERTISING—See Mailing Lists
DOOR CHECKS—See Hardware, Window and Door

DOORS, METAL

Bayley Co., Wm., Springfield, O.

2381. *Bayley-Springfield Steel Doors.* Bulletin D21. 4 pp. Illus. Reproductions and details.

Lupton's Sons Co., David, Philadelphia, Pa.

3849. *Lupton's Steel Doors.* Describes several types.

Richards-Wilcox Mfg. Co., Aurora, Ill.

4424. *Monarch Mill-Type Doors.* Illus. Catalog. 8 pp. Contains descriptions and blueprints of this mill-type door.

Truscon Steel Co., Youngstown, O.

4795. *Truscon Steel Sash.*. Illus. 80 pp. Handbook.
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog. Contains designing data, tables and views of stock sash installations.

DOORS—Wood

Chicago & Riverdale Lumber Co., Riverdale, Chicago.

5421. *Catalogs.* Illustrated. Cover entire line of doors, sash, etc.

Combination Door Co., Fond-du-lac, Wisc.

2751. *Easy-Change Combination Doors.* Catalog H. Illus. Deals with description of combination storm and screen door.

Long-Bell Lumber Co., R. A. Long Bldg., Kansas City, Mo.

3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.

Morgan Sash & Door Co., Chicago, Ill.

4041. *Building with Assurance.* Catalog. 440 pp. Illus. Shows bungalows and houses (in color) with floor plans. Includes information on interior decorating, etc. Price $2.50, refunded under special conditions.

Paine Lumber Co., Ltd., Oshkosh, Wisc.

4251. *Miracle Doors. Booklet.* 16 pp. Illus. Presents details concerning *Paine* doors in paint and natural finish.
4252. *Paine Miracle Doors.* Catalog. 56 pp. Illus. in color. Treats on *Miracle* doors from an interior decorative angle.

Stearns, A. T., Lumber Co., 87 Taylor St., Neponset, Boston, Mass.

4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawings of mantels, columns, doors, sash, windows, blinds.

Wheeler, Osgood Co., Tacoma, Wash.

5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of these doors.
5022. *Laminex Doors.* Catalog 31. Includes 20 designs in vertical and flat grain veneers. Size and details.
5024. *Laminex* Book. For architects and the building trade.

DOORS, SIDEWALK—See also Vault Lights

American 3-Way-Luxfer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.

2206. 3 *Way-Luxfer Sidewalk Doors.* Bulletin D23. 4 pp. Illus. Describes 5 types, also includes 3-*Way* Automatic door guard.

DOOR FRAMES—See Frames, Door and Window

DOOR AND WINDOW TRIM

Milwaukee Corrugating Co., Milwaukee, Wisc.

4003. *Milcor* Expansion Door and Window *Trim.* 8 pp. Illus.

DOOR BEDS—See Built-In Features

DRAFTING AND SURVEYING MATERIALS

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.

2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line of Aloe levels, transits and drafting material.

Beckman Co., L., 1002 Jackson Ave., Toledo, O.

2421. *Survey Instruments.* Catalog No. 8. 82 pp. Illus. Covers complete line of *Beckman* levels and transits. With prices.

Geier & Bluhm, Inc., Troy, N. Y.

3201. *Standard Precision Convertible Level.* Circular C. 6 pp. Illus. Deals with level-and-transit and leveling rod.
3202. *Junior Convertible Level.* Circular E. 6 pp. Illus. Contains information regarding *Junior* level-and-transit.

Kolesch & Co., 138 Fulton St., New York.

3721. *Catalogue of Kolesch.* Book. 336 pp. Illus. Shows complete line of surveying and drafting instruments

Makepeace, Inc., B. L., 387 Washington St., Boston, Mass.

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J. R. CLARK
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SPRAY HIATT
Indianapolis, Ind.



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H. W. POUST
Wilkes-Barre, Pa.

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Selected List of Manufacturers' Literature

(Continued from page 186)

3921. *Loxo Compound Level.* Booklet. 16 pp. Illus. Presents details on compound level and transit. Includes price.

Master Rule Mfg. Co., Inc., 815 E. 136th St., New York.

3951. *Interlox Master Slide Rule.* Folder. 4 pp. Illus. Explains use of *Interlox* rule.

New York Blue Print Paper Co., 102 Reade St., New York.

4161. *General Catalog.* Illus. Includes complete line.

Peerless Blue Print Co., 341 5th Ave., New York.

4271. *Peerless Catalog.* Illus. Comprises descriptions of surveyors', builders' and draftmen's equipment.

Stevens, E. A., Newton Falls, O.

4661. *Circular.* Describes line, and line and surface levels prices.

Warren-Knight Co., 136 N. 12th St., Philadelphia, Pa.

4921. *Sterling Tracing & Detail Papers.* Samples.

4922. *Sterling Levels and Transits.* Catalog. 32 pp. Illus. Contains specifications and structural details of instruments.

4923. *Pocket Note Book.* Illus. Gives instructions for use.

White Co., David, 907 Chestnut St., Milwaukee, Wisc.

5051. Catalog A. *White's Improved Instruments.* Illus. 36 pp.

DRAWING MATERIALS—See Drafting Materials

DRAW PULLS—See Hardware

DUMBWAITERS—(See also Elevators)

Sedgwick Machine Works, 150 West 15th St., New York.

4551. *Catalog O.* Illustrated. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.

4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiters, brass tube dumb waiters, etc.

ELECTRICAL EQUIPMENT

Erie Fixture Supply Co., Erie, Pa.

5351. *Catalog No.* 26. Describes their line of completely wired lighting fixtures.

General Electric Co., Bridgeport, Conn.

3211. *Electrical Contractors' Catalog.* Illus. Takes up complete line of products for the wiring contractor.

3212. *Wires and Cables.* Catalog. 85 pp. Illus. 4 bulletins.

3213. *Electric Fans.* Folder. 6 pp. Illus. Gives details.

3214. *Reliable Wiring Devices.* Pocket Catalog. 206 pp. Illus. Gives prices and data for switches, rosettes, etc.

Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn.

3311. *H & H Line of Electrical Wiring Devices.* Catalog R. 152 pp. Illus. Presents line of *H & H* wiring equipment.

3312. *Architect's Handbook.* 18 pp. Illus. Contains specifications of *H & H* equipped buildings.

3313. *Tumbler Switch.* Folder. 4 pp. Illus. Describes action of H & H type tumbler switch.

Johns-Manville, Inc., 292 Madison Ave., New York.

3555. *Friction Tapes & Rubber Splicing Compounds.* Folder. 4 pp.

3556. *Fibre Conduits.* Booklet. 12 pp. Illus.

3557. *Electrobestos.* Booklet. 16 pp. Illus.

Western Electric Co., New York.

5001. *Inter-Phones Systems.* Descriptive literature.

5002. *Western Electric Lighting Manual.* Gives data and specifications.

ELEVATORS

American Saw Mill Machinery Co., 61 Main St., Hackettstown, N. J.

2172. *General Catalog. No.* 22. Contains description of hoists and general line of woodworking machinery.

International Steel & Iron Co., Evansville, Ind.

3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Kimball Bros. Co., Council Bluffs, Ia.

3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.

Otis Elevator Co., 11th Ave. and 26th St., New York.

5451. *Catalogs.* Illustrated. Concerns passenger and freight elevators.

Sedgwick Machine Works, 150 West 15th St., New York.

4551 *Catalog O.* Illus. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.

4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiter, brass tube dumb waiters, etc.

ELEVATOR DOOR EQUIPMENT

McCabe Hanger Mfg. Co., 425-27 W. 25th St., New York.

3851. *Elevator Door Hangers.* Booklet 23-B. 8 pp. Illus. Shows details of *McCabe* elevator door hangers.

Richards-Wilcox Mfg. Co., Aurora, Ill.

4423. *Ideal Elevator Door Equipment and Checking Devices.* Illus. Catalog. A-21. Lists, with prices, elevator door hangers, closers, latches, etc., for various types of doors.

ENGINES

Hercules Corporation, Evansville, Ind.

3361. *Hercules Engines.* Bulletin No. 18. 24 pp. Illus. Presents complete line of Hercules engines. Contains specifications.

FIBRE BOARD LUMBER—See Wallboard

FIREPLACE FURNISHINGS

Brecher Co., 445 W. Jefferson St., Louisville, Ky.

5241. *Brecher Mantels.* Descriptive literature.

Cheney & Son, S., Manlius, N. Y.

2701. *Price List.* General Catalog. 46 pp. Illus. Covers complete line of *Cheney* products.

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.

2951. *Book of Fireplace.* 24 pp. Illus.

Hornet Mantle Co., 1147-A Market St., St. Louis, Mo.

3443. *Hornet Fireplace Furnishings.* Literature. Illus.

3444. *Hornet Wood and Tile Mantels.* Literature. Illus.

Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.

4171. *General Catalog.* No. 10. Illus. Presents complete line of hardware specialties and carpenters' tools.

Pioneer Fireplace & Supply Co., 5329 West Lake St., Chicago.

5721. *Fireplaces.* Booklet. Deals with various types for builders use.

FIREPROOF CONSTRUCTION—See Building Construction

FLAG POLES

International Steel & Iron Co., Evansville, Ind.

3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Pole & Tube Works, Inc., Newark, N. J.

4331. *Flag Poles and Radio Masts.* Provide designs for contemplated installations.

FLOOR HARDENERS—See Concrete Processes

FLOOR MAINTENANCE

General Fireproofing Co., Youngstown, O.

3226. *Wood Floor Prescrvative.* Folder GF160. 12 pp. Illus.

Johnson & Son, S. C., Dept. BA4, Racine, Wisc.

3561. *Proper Treatment for Floors, Woodwork, and Furniture.* 32 pp. Illus. Treats on hard and soft wood finish.

3562. *Portfolio of Wood Panels.* 14 pp. Illus. Contains actual panels of finished woods. Includes finishing data.

FLOORING

Armstrong Cork Co., Linoleum Division, Lancaster, Pa.

2271. *Business Floors.* 48 pp. Illus. Data and directions on laying in public and semi-public buildings.

2272. *Armstrong's Linoleum Floors.* Handbook. Illus. Contains general information, tables and details on lineoleum laying.

Bruce Co., E. L., Memphis, Tenn.

5701. *Catalog.* 24 pp. Illus. Deals with convenience and wearing qualities of Bruce Oak flooring.

California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.

2611. *Lumber Data Filing Folder.* Together with a series of "Information Sheets" on California White Pine.

2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.

Certain-teed Products Corp., 100 E. 42nd St., New York.

2671. *Linoleum, Floortex, Roll Goods and Rugs.* Descriptive literature, samples and prices.

Long-Bell Lumber Co., R. A. Long Bldg., Kansas City.

3811. *The Perfect Floor.* 16 pp. Illus. Discusses methods of laying, finishing and caring for oak flooring.

Norton Co., Worcester, Mass.

4211. *Norton Floors.* Booklet. 24 pp. Describes the several types of *Alundum* floors with reference to their applications.

4212. *Norton Floors.* Monthly House Organ. 4 pp. Illus.

4213. *Alundum Safety Tile.* Booklet. 38 pp

Oak Flooring Bureau, 1014 Ashland Block, Chicago.

5161. *The Story of Oak Floors.* 24 pp. Illus. Discusses oak for floors and different types of product.

5162. *How and Where to use Oak Floors.* 16 pp. Illus. Gives details and specifications.

5163. *For School Buildings.* Folder. 6 pp. Illus. Discusses this phase of floors.

5164. *For Beauty, Economy and Durability.* Folder. 6 pp. Illus.

Pacific Lumber Co. of Illinois, 2060 McCormick Bldg., Chicago.

4241. *Construction Digest.* Illus. Contains data and description.

Ritter Lumber Co., W. M., Columbus, O.

4451. *Ritter Oak Flooring.* Illus. Catalog. 36 pp. Describes different kinds of oak flooring.

Wood-Mosaic Co., Inc., New Albany, Ind.

5121. *Wood-Mosaic Flooring.* Catalog of wood-carpet, strips, parquetry, tongue and groove flooring in natural wood colors.

5122. *Wood-Mosaic Floors.* Catalog. Illus. 32 pp.

Wright Rubber Products Co., Racine, Wisc.

5142. *Folder.* Illustrates their rubber tile. Shows installations.

FLOORING, COMPOSITION

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.

2464. *Bishopric Composition Flooring.* Description.

Everlasbestos Flooring Co., Rochester, N. Y.

3041. *The Modern Floor.* Booklet. 16 pp. Illus.

Muller, Franklyn, R., Inc., Waukegan, Ill.

4051. *Asbestone Fireproof Flooring.* 16 pp. Illus. Shows details

4052. *Instruction for preparing and laying Asbestone.* 8 pp. Illus.

Rocbond Co., Van Wert, O.

4463. *Rocbond Flooring.* Illus. Booklet. Describes properties and application for public buildings, stores, houses, etc.

United States Gypsum Co., 205 W. Monroe St., Chicago.

4813. *Bulletins FT* 3, *SP*2.

FLOORING—Industrial

Johns-Manville, Inc., 292 Madison Ave., New York.

3558. *Flooring That's Made to Fit.* Booklet. 16 pp. Illus.

FLOOR SANDERS—See Floor Surfacing Machinery

FLOOR SURFACING MACHINERY

American Floor Surfacing Machine Co., So. St. Claire St., Toledo, O.

2121. *American Universal.* Booklet. 8 pp. Illus. Describes American Universal Floor Surfacers.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.

2341. *Electric Portable Sander.* Bulletin BE. Illus.

Campbell Machine Co., Inc., 39 Hayward, Wollaston, Mass.

2621. *Catalog.* Illus. 16 pp. Discusses different uses of floor surfacing machine

Chappell & Co., Waywell, 137 No. Jackson St., Waukegan, Ill.

2691. *Little-Automatic Electric Surfacing Machine.* Folder. 4 pp. Ballbearing Electric Floor Surfacing Machine.

Electric Rotary Machine Co., 3825 W. Lake St., Chicago.

3001. *The Electric Rotary Machine.* Catalog. 28 pp. Illus. Covers entire line of floor surfacing, refinishing machinery.

Fox Supply Co., Brooklyn, Wisc.

3161. *Fox Floor Scraper No.* 1. Leaflet. Illus. Includes price.

Lincoln-Schlueter Machinery Co., 225 W. Illinois St., Chicago.

3791. *Improved Schlueter Non-Lever Floor Surfacer.* Leaflet. 2 pp. Illus. Describes electric floor surfacer.

3792. *Illustrated Letter.* 4 pp. Presents description and data.

3793. *The Marvel.* Folder. 2 pp. Illus. Describes two disc type.

3794. 3 *Men and a Lincoln.* Folder. 4 pp. Illus.

Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.

3962. *Master Floor Sander.* Descriptive literature.

National Sanding Machine Co., 543-45 Vedder St., Chicago.

4111. *Super Floor Surfacing Machine.* Catalog. 16 pp. Illus. Explains 5-day trial and 5-year guarantee policy

4112. *The Lightning Electric Floor Surfacer.* Circular. 4 pp. Gives details.

Triple "A" Machine Co., 4605 Ravenswood Ave., Chicago, Ill.

4771. *Booklet.* Illus. Describes their combination scraper.

FLOOR VOIDS FOR CONCRETING—See Concrete Accessories

FOUNTAINS, ELECTRICAL

Fink Co., John, 104 Lexington Ave., New York.

5481. *The Fountain Beautiful.* Illus. Leaflets. Cover the decorative characteristics of Fink electrical, portable fountains.

FRAMES, DOOR AND WINDOW—See Doors, also Windows

FROST PREVENTATIVE—See Concrete Processes

FURNACES—See Heating Equipment

GARBAGE DESTROYERS

Kerner Incinerator Co., 1027 Chestnut St., Milwaukee, Wis.

3641. *The Sanitary Elimination of Household Waste.* Folder M-30. Describes construction and operation of *Kernerator.*

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Chicago A-31—Lavatory, complete as shown with Iron Pipe connections. **Special to Builders.....$11.75**

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Selected List of Manufacturers' Literature

(Continued from page 188)

GARBAGE RECEIVERS

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2553. *Descriptive Literature.* Illus.

GAS PRODUCERS

American Heating & Lighting Co., Morenci, Mich.
2131. *Gas for Country and Suburban Homes.* 166 pp. Illus.

GLASS

American Window Glass Co., Pittsburgh, Pa.
2211. *Complete Window Glass Specifications.* Folder. 4 pp. Illus.
Bayley Co., Wm., Springfield, O.
2388. *Bayley-Springfield Wire Glass Windows.* Bulletin. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Lupton's Sons Co., David, Philadelphia, Pa.
38411. *Lupton Glass.* Deals with glass for doors and windows.
Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* 36 pp. Illus. Takes up complete line of wire glass and ornamental sheet glass. Includes tests.
4012. *Factrolite.* Leaflet. Deals with the use of this type of glass.

GLASS, ORNAMENTAL

American 3-Way-Luxfer Prism Co., 13 St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2201. *Lux Lens Pressed Tile.* 4 pp. Illus. Describes *Lux Lens* and *Spero Lens* for store fronts and transom lights.
2202. *3 Way-Luxfer Prisms.* 4 pp. Illus. Describes 3-Way Prismatic Glass for store fronts, transoms and upper sash.
Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* 36 pp. Illus. Takes up complete line of wire glass and ornamental sheet glass. Includes tests.
4012. *Factrolite.* Leaflet. Deals with the use of this type of glass.

GLAZING COMPOUND—See Caulking

GLUE POTS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2347. *Descriptive Literature.* Illus.
Black Bros. Co., Inc., Mendota, Ill.
2471. *Bulletin 11-G..* 2 pp. Illus. Describes electric glue pot.
Wallace & Co., J. D., 134-153 S. California Ave., Chicago.
4892. *Wallace Machines for Working Wood.* Illus. Catalog. 23 pp. Description of their electric glue pot.

GRILLES—See also Registers

Garden City Plating & Mfg. Co., 1430 So. Talman Ave., Chicago.
3193. *Circular.* Shows standard designs in grilles and wickets of brass, bronze and steel.
Hart & Cooley Co., Inc., New Britain, Conn.
3301. *Grilles.* Catalog. Illus. Contains complete information.
Meyers Mfg. Co., Fred J., Hamilton, O.
3981. *General Catalog.* 110 pp. Illus. Covers entire line of wire, iron, bronze and brass products.
3982. *Folder.* 4 pp. Illus. Describes new type of grille.
Tuttle & Bailey Mfg. Co., 2 W. 45th St., New York.
4801. *Catalog—No. 78, and Special Booklet on Grilles.* Includes *Ferrocraft Grilles* in plain lattice and 500 special designs;
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section devoted to their perforated metal grilles. Designs in black and white.

GRINDING MACHINERY

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus.
Huther Bros. Saw & Mfg. Co., Rochester, N. Y.
3461. *Huther Grinding Attachment.* Leaflet. 2 pp. Illus.

GUARDS, WINDOW—See Grilles, also Ornamental Iron

GUTTERS—See Leaders, etc.

GYPSUM

United States Gypsum Co., 205 W. Monroe St., Chicago.
4814. *General Catalog RB1.*

HAMMERS—See Tools

HANGERS, DOOR—See Hardware

HARDWARE

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus.
Ives Co., H. B., New Haven, Conn.
3521. *Builders' Hardware.* Folder. Illus. Describes *Ives* line of builders' hardware, window and door specialties.
Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog. No. 57.* 414 pp. Illus. Presents complete line of *Myers pumps*, door hangers, store ladders, etc.
National Brass Co., Grand Rapids, Mich.
4081. *General Catalog.* 1925 edition. Illus. Covers complete *National* line of brass hardware.
National Mfg. Co., Sterling, Ill.
4091. *National Garage Hardware.* Catalog. 32 pp. Illus. Includes working drawings of garages.
4092. *Builders' Hardware.* Catalog No. 19. 120 pp. Illus.
4093. *Ornamental Ideas.* 24 pp. Illus. Deals with hinge and butt.
Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.
4171. *General Catalog.* No. 10. Illus. Presents complete line of hardware specialties and carpenters' tools.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4424. *Woodworking Vises & Manual Training Benches.* Illus. 11 pp. Shows several types of equipment, with prices.
4429. *Booklet.* Ill. Describes big door hardware for round houses and freight houses.
Sargent & Co., New Haven, Conn.
4521. *Details to Which Standard Hardware Can Be Applied.* Booklet. 6 pp. Illustrated. Treats on construction details.
4522. *Sargent Door Checks.* Folder. Illustrated.

HARDWARE, WINDOW AND DOOR

Barnes Lock & Sash Holder Co., 1820 Tribune Tower, Chicago.
5651. *Barnes Sash Holder.* Leaflet. Illus. Describes substitute for weights and cords. Includes details and instructions for installation.
Caldwell Mfg. Co., 5 Jones St., Rochester, N. Y.
2601. *Suggestions for the Present Day Architect.* Booklet. 16 pp. Illus. Gives data for *Caldwell* sash balances.
Casement Hardware Co., 250 Pelouse Bldg., Chicago.
2651. *Catalog.* Illus. Describes *Casement Window Specialties.*
Griffin Mfg. Co., Erie, Pa.
3271. *Hinges.* Book. 72 pp. Illus. Covers complete line.
3272. *Cellar Window Sets.* Folder. 4 pp. Illus.
3273. *Garage Hardware.* Folder. 4 pp. Illus.
3274. *Butt Hinges.* Folder. 6 pp. Illus.
Ives Co., H. B., New Haven, Conn.
3522. *Builders' Hardware.* Catalog No. 15. 148 pp. Illus. Covers complete line of *Ives* window and door hardware specialties.
Lyons Mfg. Co., New Haven, Conn.
5281. *Lymco Casement Window Adjusters.* Folder. 4 pp. Illus. Shows operation of brass casement window adjuster.
McCabe Hanger Mfg Co., 425-427 W. 25th St., New York.
3852. *General Catalog.* No. 24-B. 60 pp. Illus. Covers house door, garage, folding partitions, and elevator door hangers.
National Mfg. Co., Sterling, Ill.
4091. *National Garage Hardware.* Catalog. 32 pp. Illus. Includes working drawings of garages.
4092. *Builders' Hardware.* Catalog No. 19. 120 pp. Illus.
4093. *Ornamental Ideas.* 24 pp. Illus. Deals with hinge and butt.
Pullman Mfg. Co., Rochester, N. Y.
4371. *15 Minutes Completes the Job.* Folder. 6 pp. Illus. Discusses *Pullman* spring sash balance.
4372. *Catalog No. 38.* Illus. Takes up all types of *Pullman* spring sash balance.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4421. *Distinctive Garage Door Hardware.* Illustrated Catalog.
4422. *Modern Hardware for Your Home.* Illus. 24 pp. Contains description and prices of door hangers, window hardware.
4428. *Catalog No. 40.* Lists sliding and folding partition door hardware.
4429. *Booklet.* Ill. Describes big door hardware for round houses and freight houses.
Sargent & Co., New Haven, Conn.
4521. *Details to Which Standard Hardware Can Be Applied.* Booklet. 6 pp. Illus. Treats on construction details.
4522. *Sargent Door Checks.* Folder. Illustrated.
Star Expansion Bolt Co., 147 Cedar St., New York.
5331. *Literature.* Describes *Drywins*, their expansion shield.
Weisse Mfg. Co., La Crosse, Wisc.
4991. *Literature.* Describes combination glass and screen enclosed porches and casement window hardware.
Whitney Co., Vincent, 444 Mass. Trust Bldg., Boston, Mass.
5071. *Whitco Casement Hardware.* Decriptive literature.

HEATING EQUIPMENT

American Heating & Lighting Co., Morenci, Mich.
2131. *Gas for Country and Suburban Homes.* 16 pp. Illus.
American Radiator Co., 40 W. 40th St., New York.
2161. *The Ideal Fitter.* 21st edition of hand-book. 346 pp. Illus.
2162. *Ideal Type of Heat Machines.* 48 pp. Illus. Details.
2164. *Corto.* 16 pp. Illus. Introduces new radiator.
Andrews Heating Co., 2001 Heating Bldg., Minneapolis, Minn.
2251. *Catalog.* Describes heating, plumbing equipment.
Babson Bros., Dept. A555, 19th St. and California Ave., Chicago.
5431. *Bulldog Pipeless Furnace. Book.* Illustrated. Deals with economy of *Babson* pipeless furnace.
Bovee Furnace Works, Waterloo, Iowa.
2491. *Warm Air Furnaces.* Broadside. Illus. Deals with *Bovee's* bungalow, horizontal radiator and electric fan blower types.
Burnham Boiler Corp., Irvington, N. Y.
2571. *Letters To and Fro.* Booklet. Treats of the heating question.
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Covers complete line.
Forest City Foundry & Mfg. Co., Cleveland, O.
3141. *Monarch and Niagara Warm Air Furnaces.* Catalog No. 23.
Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.
Hart & Crouse Co., Utica, N. Y.
5191. *Royal Heating Equipment.* Descriptive literature.
Hess Warming and Ventilating Co., 1207 So. Western Ave., Chicago.
3382. *Modern Furnace Heating.* Catalog. 48 pp. Illus. Describes *Hess* warm air heating systems.
B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.
Milwaukee Corrugating Co., Milwaukee, Wis.
40011. *Furnace and Stove Pipe and Fittings.* Catalog No. 25.
Richardson & Boynton Co., 260 5th Ave., New York.
5223. *The Richardson Manual.* 419 pp. Illus. Gives data on "Richardson" Boiler for steam, hot water and vapor system, "Perfect" Warm-Air and Pipeless Furnaces, tank heaters and ranges.
5221. *Richardson Hot Water Heater.* Describes *Galvoxide Water Section* for use in connection with the *Richardson.*
5222. *Your Store.* This and another Booklet, for dealers.
Thatcher Co., 39 St. Francis St., Newark, N. J.
4762. *Catalog.* Contains information *Pipeless Furnace.*
4763. *Catalog.* Illus. Describes their *Tubular Furnace.*
Tuttle & Bailey Mfg. Co., 2 West 45th St., New York.
4802. *Tambo Antique.* Sample of this Finish for Registers.
United States Radiator Corp., Detroit, Mich.
4831. *Capitol Boilers, Square Type.* Illus. Booklet. 25 pp. Gives description of boilers and several radiator patterns.
4832. *Capitol Boilers, Winchester Type.* Illus. Booklet. 23 pp. Describes construction and details of these boilers.

HEAT INSULATION—See Insulation

HINGES—See Hardware, Window and Door

HOISTS—See also Elevators

Brown Clutch Co., Sandusky, O.
2521. *Hoists.* Catalog. Illus. Covers all *Brown* types from hand winches to 6,000-pound capacity.
C. H. & E. Mfg. Co., Clinton & Mineral Sts., Milwaukee, Wis.
2583. *Descriptive Literature.* Bulletin. Illus.
Kimball Bros. Co., Council Bluffs, Ia.
3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.
Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus. Lists such equipment as hoists, mixers, scrapers, etc.

HOUSE MOVING

LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3761. *Catalog.* 34 pp. Illus. Deals with house moving appliances.

INCINERATORS—See Garbage Destroyers

INJECTERS—See Water Systems

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SARGENT
Tools & Hardware



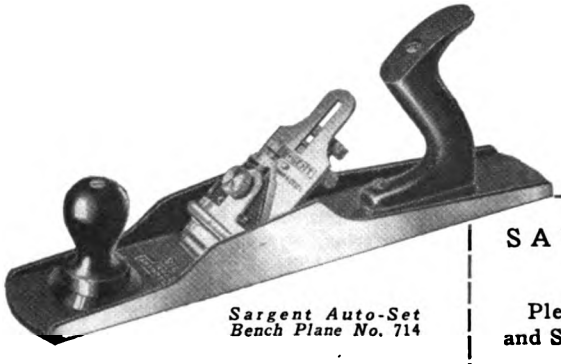
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DO YOU know how convenient Sargent Standard Steel Squares really are? Do you know that they are the only squares made which require no figuring by the carpenter? The necessary figures are all given in the rafter tables on the square. They are for ordinary widths of buildings having roofs of common pitches. They have been most carefully prepared.

Sargent Squares are made from high-grade steel specially tested for trueness. They are accurately marked and dependable under every condition. They give lengths of common, hip, valley, jack and cripple rafters; also all top, bottom and side cuts.

Growing in popularity is the Sargent Take-down Square. This is as completely scaled and tabled as the one-piece type. It fits in the shoulder kit and can be put together or taken apart in a few moments. You'll find it mighty convenient.

We want to send you booklets describing Sargent Squares and the complete line of Sargent Planes. These are of interest to every user or buyer of carpenter tools. Fill out and mail coupon for them today and see these fine tools at your dealer's.



Sargent Auto-Set Bench Plane No. 714

SARGENT & COMPANY, *Manufacturers*
52 Water Street, New Haven, Conn.

Please send me, without cost, the booklets on Sargent Planes and Squares.

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Selected List of Manufacturers' Literature

(Continued from page 190)

INSULATION

Armstrong Cork and Insulation Co., 197-24th St., Pittsburgh.
5331. *Armstrong Corkboard.* Bulletins. Illustrated. Material includes structural details and methods of laying over various types of construction.

Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints and Insulating Paper.* Descriptive literature.

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2463. *Bishopric for All Time and Clime.* Booklet. Illus. 44 pp. Describes their heavy weight insulating stucco and plaster base, stucco board, sheathing board, sound deadening stucco.

Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2591. *Cabot's Heat Insulating Quilt.* Literature. Illus.

Celotex Co., 11 W. Washington St., Chicago.
2661. *Your Home.* Catalog. Gives information about *Celotex* and deals with homes. Price 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.

Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

Flaxlinum Insulating Co., St. Paul, Minn.
3081. *Heat Insulation for Houses.* Treating heat insulation and its relation to residence to residence construction.
3082. *For Comfort and Economy.* Booklet. 32 pp. Illus. Deals with heat insulation for the home builder.
3083. *Standard Specifications.* File 19G. Illus. Contains specifications for heat insulating and sound deadening.

Johns-Manville, Inc., 292 Madison Ave., New York.
3550. *Insulating Materials.* 22 pp. Illustrated.

Ruberoid Co., 95 Madison Ave., New York.
4481. *Ru-ber-oid Facts Worth Knowing.* Illus. Booklet. 20 pp.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4815. *Gyp-Lap Sheathing Board.* Bulletins GL3, Misc. 1.

U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool In Architecture.* Booklet. Illus

IRONING BOARDS—See Built-In Features

JACKS, BUILDING

LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3762. *Jacks.* Descriptive literature.

JOISTS AND STUDS, PRESSED STEEL

General Fireproofing Co., Youngstown, O.
3227. *GF Steel Lumber.* Booklet. 12 pp. Illus. Deals with joists and studs for floor, roofs, and partitions.
3228. *GF Steel Joists.* Booklet. 18 pp. Illus.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Truscon Steel Co., Youngstown, O.
4798. *Truscon Steel Joists.* Catalog. Illus. 24 pp. Gives information of pressed steel beams and joists.

KITCHEN CABINETS—See Built-In Features

LADDER BRACKETS—See Brackets, Ladder

LATH, EXPANDED METAL AND WOOD—See Stucco Bases

LEADERS, FLASHINGS AND GUTTERS

Milwaukee Corrugating Co., Milwaukee, Wisc.
4004. *Milcor Rain Carrying Equipment.* Folder. 8 pp. Illus.

New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illus. Contains information regarding downspouts and gutters of *Horse Head* zinc.

Wheeling Corrugating Co., Wheeling, W. Va.
5031. *Hand Dipped Conductor Pipe.* Descriptive literature.

Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad. Literature.* Describes leadcoated sheets, roofing, shingles, spouting, gutter, etc.

LEVELS AND TRANSITS—See Drafting and Surveying

LIFTS—See Elevators, also Hoists

LIGHTING—See Electrical Equipment

LIGHTNING RODS

Mast Lightning Rod Co., W. Milton, O.
5571. *Lightning Rods, Fixtures and Ornaments.* Catalog No. 4. Illustrated. Takes up line of copper and galvanized sectional rods.

Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Descriptive Catalog and Price List.* Shows different designs.

LIME

Kelley Island Lime and Transport Co., Cleveland, O.
3611. *Tiger Finish.* Catalog. Illus. Discusses use of *Tiger lime* in building work.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4816. *Bulletins HL1, HL2, HL3, HL4, Spec. 9.*

Woodville Lime Products Co., 622 Madison Ave., Toledo, O.
5131. *Leaflet.* Describes their brands of *Finishing Hydrated Lime.*
5133. *Quality from Stone to Finish.* Broadside

LINOLEUM—See Flooring

LOANS

Miller & Co., G. L., 30 E. 42nd St., New York.
5171. *Descriptive Literature* pertaining to the financing of building.

LUMBER AND WOODWORK

Birch Mfgs. Assn., 229 F. R. A. Bldg., Oshkosh, Wis.
2441. *Literature.* Tells of production and use of birch and kindred hardwoods. Gives information on woodwork finishing.

California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of Information Sheets California White and Sugar Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association

Chicago & Riverdale Lumber Co., Riverdale, Chicago.
5421. *Catalogs.* Illustrated. Cover entire line of doors, sash, lumber, etc.

Hartmann-Sanders Co., Elston and Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. Price 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24 pp.

Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3812. *The Post Everlasting.* Booklet. 32 pp. Illus. Gives information on creosoted yellow pine fence posts, etc.
3813. *Poles That Resist Decay.* Booklet. 16 pp. Illus. Discusses telegraph, telephone and transmission line poles.

Morgan Sash & Door Co., Chicago, Ill.
4041. *Building With Assurance.* Catalog. 440 pp. Illus. Shows bungalows and houses (in color) with floor plans. Includes information on interior decorating, etc. Price, $2.50, refunded under special conditions.

Pacific Lumber Co. of Illinois, 2060 McCormick Bldg., Chicago.
4241. *Construction Digest.* Illus. Contains data and description.

Southern Cypress Mfg. Assn., New Orleans, La.
4611. *Descriptive literature.*

Stearns, A. T. Lumber Co., 87 Taylor St., Neponset, Boston.
4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawing of mantels, columns, doors, sash windows, blinds.

Weatherbest Stained Shingle Co., Inc., 145 Main St., North Tonawanda, N. Y.
4962. *Literature* deals with cost of *Weatherbest Stained Shingle* side walls. Includes samples showing Weatherbest color.
4963. *Book.* Newly published book, devoted to remodeling.

Western Pine Mfrs. Assn., 510-517 Yeon Bldg., Portland, Ore.
5011. *The Pondosa Story.* Booklet. Treats of development of Western Pine industry.

MAILING LISTS

Ross-Gould Co., 324 N. 10th St., St. Louis, Mo.
4471. *Catalog and Reference Book.* Contains index to various mailing lists for use in direct mail advertising.

MARKING DEVICES—See Branding Irons

MARQUISES

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus. Covers entire line of products.

METALS AND METAL BUILDING SPECIALTIES

American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
2181. *Reference Book. Pocket Edition.* Illus. 168 pp.
2182. *Apollo and Apollo-Keystone Galvanized Sheets.* Catalog. Illus.
2183. *Research in the Corrosion Resistance of Copper Steel.* Booklet. Illus. 24 pp. Gives technical information.
2184. *Facts Simply and Briefly Told.* Booklet. Illus. 16 pp. Gives non-technical statements on *Keystone Copper Steel.*

Bridgeport Brass Co., Bridgeport, Conn.
2511. *Seven Centuries of Brass Making.* Booklet. 77 pp. Illus.
2512. *Tested High Speed Brass Rod.* Booklet. 16 pp. Gives short treatise on manufacture of brass rod.
2513. *Data Book.* Booklet No. 16 48 pp. Illus. Tables and data.
2515. *Bridgeport Ledrite Rod-O-Graph.* Chart showing way to figure weight of brass rod to make screw machine parts.

Donley Bros. Co., 12920 Miles Ave., Chicago.
2554. *Donley Devices.* Catalog. 36 pp. Illus. Covers Donley line.

Edwards Manufacturing Co., Cincinnati, O.
2091. *Edwards Metal Roofing*, etc. Catalog. 224 pp. Illus. Covers complete line of Edwards products.

General Freproofing Co., Youngstown, O.
32213. *GF Metal Building Specialties.* Folder A. I. A. File No. 16E2. 20 pp. Illus. Includes information on bridging, etc.

Globe Ventilator Co., Dept. L., Troy, N. Y.
3261. *Globe Ventilator* and *Globe Chimney Cap.* Provide specifications on contract work.

Milwaukee Corrugating Co., Milwaukee, Wis.
4002. *Metal Ceilings.* General Catalog 26. 144 pp. Illus. Deals with line of metal ceilings and specialties.
4005. *Catalog No. 27.* 14 pp. Illus. Designs of Invisible joint ceilings, individual field plates, cornices, etc.

New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illustrated. Describes their leader pipes, eaves troughs, and other zinc products.
4157. *The Roof That Is Ever New.* Folder. Illustrated. Describes their Horse Head Zinc Roofing.

Sheet Steel Trade Extension Committee, 715 Oliver Bldg., Pittsburgh, Pa.
5661. *Sheet Steel Service.* Monthly magazine. Deals with promotion work carried on in the interests of sheet steel.

Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad.* Literature. Describes lead coated sheets, roofing, shingles, spouting, gutter, etc.

MILLWORK—See Lumber and Woodwork

MINERAL WOOL—See also Insulation

U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool in Architecture.* Booklet. Illus.

MOLDS, CONCRETE—See Concrete Machinery

MORTAR BOARDS AND BOXES

Donley Bros. Co., 12920 Miles Ave., Cleveland, O.
2959. *Mortar Boxes.* Descriptive literature concerning metal boxes.

MORTAR COLORS

Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus. Includes description, testimonials, and samples.

Clinton Metallic Paint Co., Clinton, N. Y.
2731. *Clinton Mortar Color.* Folder. Illus. Gives directions for using and examples of application.
2732. *Color Card.* Portrays various shades.
2733. *Color Harmony in Brickwork.* Series of 6 folders. Illus.

OIL CLOTH—See Wall Covering, also Flooring

ORNAMENTAL IRON AND BRASS

American Brass Co., Waterbury, Conn.
2691. *Anaconda Extruded Shapes.* Folder. 4 pp. Illus. Contains color plate of full size extruded shapes of brass.

Cincinnati Iron Fence Co., 3300 Spring Grove Ave., Cincinnati, O.
2721. *Iron Fence, Gates, Grilles, Window Guards.* Broadside. Illus.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.

Mast Lightning Rod Co., W. Milton, O.
5571. *Lightning Rods, Fixtures and Ornaments.* Catalog No. 4. Illus. Deals with ornaments of bronze.

Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section showing their ornamental iron fence and gates.

PACKAGE RECEIVERS

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2955. *Descriptive literature.* Illus.

PAINTS, STAINS, VARNISHES AND WOOD FINISHES

Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints.* Descriptive.

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NIAGARA Furnaces

Are Chuck-full of Selling Points for the Builder

The Niagara stands head and shoulders above the ordinary run of warm air equipment.

In construction—In design—
In manufacturing methods—
In materials used—
In tests before shipping—
In service—
In freedom from repair—

IT EXCELS THROUGHOUT!
Write or wire for details.



Also Mfrs. of Monarch and Peerless Furnaces

The FOREST CITY FOUNDRY and Manufacturing Company
1220 Main Avenue
Cleveland, Ohio

B.A.-5

The Forest City Fdy. and Manufacturing Co.
Cleveland, Ohio.

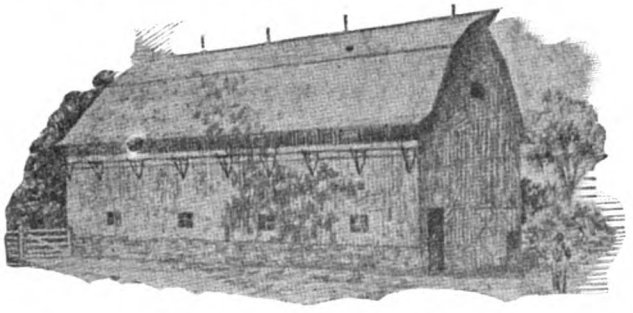
Send us complete information on Niagara Furnaces at once.

Name .....

Address .....

"We would not think of getting along without Reliable Brackets"

That's a pretty good recommendation from an experienced and successful building contractor! Read his letter—



Grove City, Pa.

Elite Manufacturing Co.,
Ashland, Ohio.

Gentlemen:

About a year ago we ordered two dozen of your Reliable Brackets, then later we got half a dozen more. We ordered them thru our local lumber dealer. We also bought two dozen of your roof brackets from your Mr. Kemerling. They have all paid for themselves; in fact, we would not think of getting along without the Reliable Brackets.

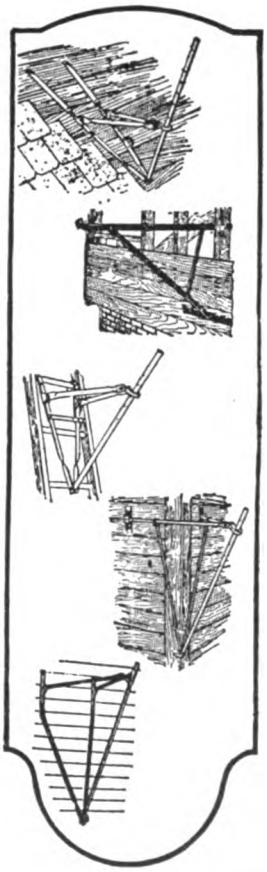
Yours very truly,
A. M. Eakin & Son Co.

This letter is just like hundreds of letters we are getting all the time. Builders and contractors everywhere are telling us how much safer and more economical Reliable Scaffold Brackets are than the old wooden scaffolds.

There are no holes to plug up after using Reliable Brackets.

Send in your order and start saving money now. All of these brackets will save you lots of time and money—Roofing Brackets, Hook Type Bracket, Ladder Bracket, Corner Bracket and the standard Scaffold Bracket.

Send for our illustrated folder describing these brackets or order now. We ship C.O.D. so you can see the brackets before you pay a cent.



ELITE MANUFACTURING COMPANY

Dept. BA-9

Reliable Scaffold Brackets
Patented Oct. 4, 1910
No holes to plug after they are removed

ASHLAND, OHIO

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Selected List of Manufacturers' Literature

(Continued from page 192)

Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2592. *Cabot's Creosote Stains.* 16 pp. Illus. Gives description.
Certain-teed Products Corp., 100 E. 42nd St., New York.
2672. *Paints, Enamels, Varnishes, etc.* Literature. Includes samples, color cards, and prices.
General Fireproofing Co., Youngstown, O.
32214. *GF Floor Enamel.* Bulletin No. 155. 4 pp. Illus. Treats preserving and decorating of cement floors.
Johnson & Son, S. C., Dept. BA4, Racine, Wis.
3561. *Proper Treatment for Floors, Woodwork and Furniture.*
3562. *Portfolio of Wood Panels.* 14 pp. Illus. Contains actual panels of finished woods. Includes finishing data.
New Jersey Zinc Co., 160 Front St., New York.
4152. *Mapaz Handbook.* Illus. *Mapaz No. 1,* a zinc oxide paint.
4153. *Zinc as a Paint Pigment.* Pamphlet. Illus.
4154. *40-40-20.* Booklet. Describes new exterior paint made from *Albalith* and XX zinc oxide with 40-40-20 formula.
Paasche Air Brush Co., 1909 Diversey Parkway, Chicago.
5731. *Descriptive Literature.* Illus. Takes up details concerning use of air brush equipment in painting work.
Toch Bros., 110 E. 42nd St., New York.
5331. *Specifications.* 60 pp. illus. catalog. Specifications for dampproofing, waterproofing, enameling.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4817. *Textone.* T3. Architects' specifications for *Textone.*

PAINTS, CEMENT
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2461. *Bishopric Sunfast Finish.* Folder. Illus. Shows reproductions in color of houses with finish applied.
2462. *Color Card.* Contains sample colors of *Sunfast Finish.*
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus.
Sandusky Cement Co., Cleveland, O.
5183. *Medusa Cement Paint.* Descriptive literature.

PANELS—See Veneer, Wallboard, Panels, Wood

PANELS, WOOD
American Plywood Corp., New London, Wis.
2151. *Plywood Stock List.* Concerns use of panels for built-in work.

PARQUET FLOORING—See Flooring

PARTITIONS
Alberene Stone Co., 153 W. 23d St., New York.
2032. *Illustrated literature* on toilet partitions of soapstone.
Lupton's Sons Co., David, Philadelphia, Pa.
3847. *Catalog.* Treats with partitions and other built-in features.
McCabe Hanger Mfg. Co., 425-427 W. 25th St., New York.
3853. *Accordion and Folding Door Hangers.* Booklet No. 22-B.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4426. *Partitions.* Illus. Booklet. 32 pp. Shows tracks and hangers for various styles of door partitions.
4428. *Catalog No. 40.* Lists sliding and folding partition door hardware.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4818. *Pyrobar Partition and Furring Tile Book.* Bulletin PT3.
Weis, Henry, Mfg. Co., Atchison, Kan.
4981. *Weisteel Compartments.* Catalog 11. Illus. Plans, specifications and details of metal partitions and doors for toilet rooms, shower and dressing rooms, hospital articles, etc.

PERGOLAS
Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3332. *Arbors and Pergolas.* Circular D-61. 4 pp. Illus.

PIPE—See also Metals and Metal Building Specialties
American Brass Co., Waterbury, Conn.
2092. *Ten Years Hence.* Booklet. 16 pp. Illus. Discusses the problem of permanent water pipe installation in the home.
2093. *Brass Pipe for Water Service.* Publication B1, 2nd edition. Presents data for architects, engineers and contractors.
Bridgeport Brass Co., Bridgeport, Conn.
2513. *Data Book.* Booklet No. 16. 48 pp. Illus. Tables and data concerning sheet brass and brass tubing.
2514. *Brass Pipe and Pipings.* Bulletin No. 15. Illus. Contains tables, charts, etc., for design of hot-water installations.
Johnson Plumbing Supply Co., 3641-43 So. Halsted St., Chicago.
3571. *Johnson Catalog.* Illus. Covers entire line.

PIPE, CONDUCTOR
Lupton's Sons Co., David, Philadelphia, Pa.
3848. *Literature.* Illus. Describes ventilators and conductor pipe
Milwaukee Corrugating Co., Milwaukee, Wis.
4002. *General Catalog No. 26.* 144 pp. Illus
New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illus. Contains information regarding downspouts and gutters of *Horse Head* zinc.
Wheeling Corrugating Co., Wheeling, W. Va.
5931. *Hand-Dipped Conductor Pipe.* Descriptive literature.

PLANS
American Face Brick Assn., 130 N. Wells St., Chicago.
Bungalow and Small House Plans. (See listings under Brick.)
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2465. *Bishopric Plan Book.* Illus. Contains 32 suggestions for houses costing from $7,000 to $20,000. Price, 25 cents.
Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.
2711. *Five Room Bungalow.* Blue print plans.
Common Brick Manufacturers' Assn., 2121 Title Guarantee Bldg., Cleveland, O.
City and Farm House Plans. (See listings under Brick.)
Contractors Plan Service Co., Box 115, Dayton, O.
5251. *Plan Books.* Descriptive literature.
Keith Corp., 100 N. 7th St., Minneapolis, Minn.
3601. *Keith's Magazine.* Monthly. Subscription offer of $3.25 includes 278-page De Luxe edition, "Beautiful Homes."
Stevenson, R. L., 521 Paddock Bldg., Boston, Mass.
4071. *Homes of Character.* Folder. 4 pp. Illus. Describes the book, "Homes of Character," containing 100 designs of houses from $5,000 to $20,000, with floor plans, etc. Price of books, $2.00 de Luxe edition; $1.00 paper bound.
Stillwell, E. W., & Co., 270 California Bldg., Los Angeles, Cal.
4691. *All-American Homes.* 50 houses, 7 to 10 rooms. $1.00.
4692. *The New Colonials.* 50 houses, 6 to 10 rooms. $1.00.
4693. *Southwest Stucco Homes.* 75 duplexes to bungalows. $2.00.
4694. *Little Bungalows.* 75 houses, 3 to 5 rooms. $1.00.

PLASTER BASE—See Stucco Base, also Lath

PLASTER BOARD—See Wallboard

PLUMBING EQUIPMENT—See also Bathroom Fixtures
Alberene Stone Co., 153 W. 23d St., New York.
2033. *Illustrated literature* on soapstone kitchen sinks.
Andrews Heating Co., 2001 Heating Bldg., Minneapolis, Minn.
2251. *Catalog.* Describes Heating, Plumbing Equipment.
Chemical Toilet Corp., 801-21 Free St., Syracuse, N. Y.
5641. *Sani-Equip Septic Tanks and Waterless Toilets.* Booklet. Illus. Describes a chemical toilet installation
Crane Co., 836 S. Michigan Ave. Chicago.
2841. *Plumbing Suggestions for Home Builders.* 80 pp. Illus.
2842. *Plumbing Suggestions for Industrial Plants.* 44 pp. Illus.
Hardin-Lavin Co., 121-B1, W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.
Johnson Plumbing Supply Co., 3641-43 So. Halsted St., Chicago.
3571. *Johnson Catalog.* Illus. Covers entire line.
B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.
Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
3631. *Kenney Curtainless Shower.* Catalog A. Illus. Concerns several types of curtainless showers.
Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4283. *Penberthy Injectors.* Series of folders. Illus. Describe various types and models
4284. *Washing Machine Drainer.* 4 pp. Illus. Explains how product is used with faucet attachment.
4285. *Safeguard Water Gage.* 4 pp. Illus.
4281. *Automatic Cellar Drainer.* Folder. 8 pp. Illus. Gives prices.
4289. *Sales Talks.* Semi-monthly pamphlet for jobbers.

PORCHES
Thomas J. Malia, 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes porch enclosures, metal weather strips and rust-proof fly screens.
Weisse Mfg. Co., La Crosse, Wis.
4991. *Literature.* Describes combination glass and screen enclosed porches.

PUMPS
C. H. & E. Manufacturing Co., Clinton & Mineral Sts., Milwaukee, Wis.
2582. *Power-Driven Diaphragm, Road, and Centrifugal Pumps.* Litature. Illus.
Dayton Pump & Mfg. Co., Dayton, O.
2901. *Catalog.* Describes their pumps for light and heavy work.
Fairbanks, Morse & Co., 909 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets. Directs attention of builders and architects to home water systems.
Flint & Walling Mfg. Co., Kendallville, Ind.
3091. *Running Water Under Pressure.* Catalog No. 115. 48 pp. Illus. Deals with water systems, including pumps, tanks, etc.
Kwik-Mix Co., Port Washington, Wis.
3752. *High Lift Diaphragm Pumping Units.* Leaflet. 2 pp. Illus.
Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 57. 414 pp. Illus. Presents complete line of *Myers* pumps, door hangers, store ladders, etc.

PYROBAR GYPSUM TILE
United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletin PT3.* Architectural data, *Pyrobar* partition tile.

RADIATORS
American Radiator Co., 40 W. 40th St., New York.
2164. *"Corto, the Radiator Classic."* 16 pp. Illus. Introduces and describes addition to company's line.
2161. *The Ideal Fitter.* 21st edition of hand book. 346 pp. Illus. Contains tables and specifications concerning radiator fitting.
Johnson Plumbing Supply Co., 3641-43 So. Halsted St., Chicago.
3571. *Johnson Catalog.* Illus. Covers entire line.
United States Radiator Corp., Detroit, Mich.
4834. *Triton Plan U. S. Radiators.* Illustrated booklet. 23 pp. Gives details of various patterns and types.

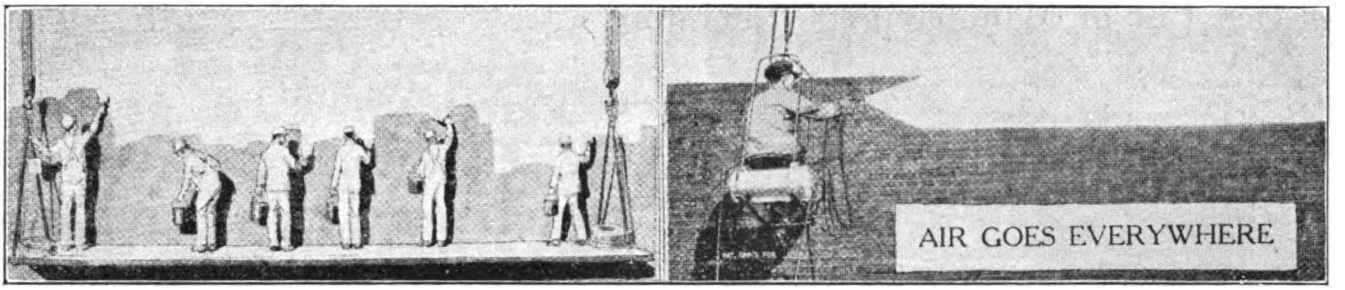
RADIO PRODUCTS
Mast Lightning Rod Co., W. Milton, O.
5571. *Mast Radio Connectors.* Catalog No. 4. Deals with sectional form of lightning rod for aerial use.
Penberthy Injector Co., Holden Ave., and Grand Trunk Ry., Detroit, Mich.
4286. *Radio Apparatus.* Series of folders. Illus. Describe *Penberthy* head phones, loud speakers, crystal sets, etc.
Pole & Tube Works, Inc., Newark, N. J.
4331. *Flag Poles and Radio Mast.* Provide designs for contemplated installations.

RANGES—See also Heating Equipment
American Heating & Lighting Co., Morenci, Mich.
2133. *Clark Jewel Stoves.* 12 pp. Illus. For use with cold process gasoline gas.
American Stove Co., Lorain, O.
2191. *Catalog No. 94.* Illus. 70 pp. Describes *Clark Jewel Gas Stoves* with *Lorain Heat Regulator.*
2192. *Catalog No. 95.* Illus. 24 pp. *Direct Action Oil Stoves* with *Lorain High Speed Burner.*
2194. *Catalog No. 97.* Illus. 24 pp. Gives information on direct action coal ranges.
2195. *Catalog No. 117.* Illus. 42 pp. Describes *Clark Jewel* oil and gasoline stoves with *Lorain* burners.
Ohio State Stove & Mfg Co., 666 Lakeshore Drive, Chicago.
4231. *The Kab Range.* Catalog BA-3. Illus. Describes a combination of the *Packer All-Steel Kitchen Cabinet* and *Ranges.*
Standard Gas Equipment Corp., 18 E. 41st St., New York.
4621. *Vulcan Gas Ranges and Appliances.* Catalog 48. Illus. 70 pp. Describes complete line.
4622. *Vulcan Gas Equipment* for Hotels, Hospitals, Restaurants, etc.
4623. *The Vulcan Bulletin.* Monthly house organ.
4624. *How Kitchen Space Was Saved in Planning.* Practical specification folder with plans.
4625. *Oriole Gas Ranges.* Catalog. 50 pp. Illus.
Thatcher Co., 30 St. Francis St., Newark, N. J.
4764. *Catalog.* Illus. Gives information relating to their ranges.

REFRIGERATORS
Herrick Refrigerator Co., Waterloo, Ia.
3371. *Refrigerators.* 56 pp. Describes various types.
McCray Refrigerator Co., 2464 Lake St., Kendallville, Ind.
3861. *Refrigerators for Residences.* Catalog No. 95. Illus.
3862. *Refrigerators for Hotels, Clubs, and Restaurants.* Catalog.
3863. *Refrigerators for Hospitals and Institutions.* Catalog No. 64.

REGISTERS
Hart & Cooley Co., Inc., New Britain, Conn.

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AUTHORITIES on PAINT agree and predict that the next step in the "BUILDING MOVEMENT" is the overcoming of HIGH PAINTING COST by the use of MACHINE PAINTING EQUIPMENT.

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In the old way of hand painting there were days and days and weeks taken to do an ordinary painting job. NOW with a Paasche Machine Painting Outfit a job can be started in the morning and finished the same day and a better job at that.

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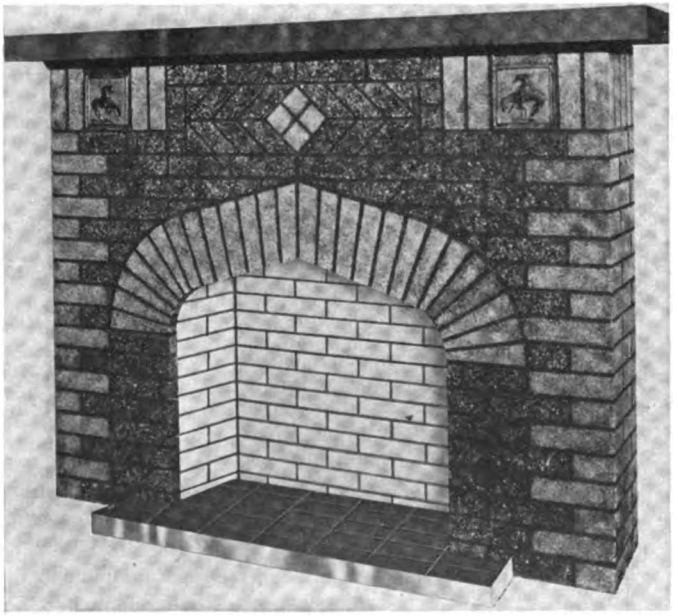
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Catalog sent on request.

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Selected List of Manufacturers' Literature

(Continued from page 194)

3302. *Registers.* Catalog No. 24. Illus. Contains complete list.
Tuttle & Bailey Mfg. Co., 2 West 45th St., New York.
4802. *Tanbo Antique.* Sample of this finish for registers.

ROOF INSULATION—See Insulation

ROOFING MACHINERY

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.
Hansen Co., L., 2303 Ward Ave., Kansas City, Mo.
3281. *Roofing Tile.* Bulletin. Explains use of Hansen machines.
3282. *Circular.* Describes roof tile making machinery.

ROOFING MATERIALS

American Insulation Co., Roberts Ave. and Stokley St., Philadelphia.
2142. *Make Your Next Roof Last.* 6 pp. Illus. Deals with *Eternit* asbestos shingles.
2143. *Building a Roof That Beautifies and Lasts.* 22 pp. Illus
American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
2186. *Better Buildings.* Catalog. 32 pp. Describes corrugated and formed sheet steel roofing and siding products.
2187. *Copper—Its Effect Upon Steel for Roofing Tin.* Catalog. Illus.
Asbestos Shingle, Slate & Sheathing Company, Ambler, Pa.
2281. *Ambler Asbestos Shingles.* Catalog. 44 pp. Illus.
2282. *Ambler Asbesto Corrugated Roofing and Siding.* Catalog.
2284. *Engineer's Data Sheets.* 40 pp. Illus. Specifications for *Ambler* roofing and siding.

Barrell Co., Wm. L., of N. Y., Inc., 50 Leonard St., New York.
2361. *Con-ser-tex Canvas Roofing.* Describes treated fabric used for roofing, with directions for laying.

Barrett Co., 40 Rector St., New York.
2371. *Better Home for Old Houses.* Shows common type of old houses. Contains suggestions from leading architects.
2372. *Barrett Roofings for Every Purpose.* Folder.
2373. *Barrett Special Products.* Folder. Describes waterproofing materials and wood preservatives.
2374. *Barrett Giant Shingles.* Folder.
2375. *Barrett Specialties.* Booklet.
2376. *Handbook.* 96 pp. Describes products.

Beaver Products Co., Inc., Buffalo, N. Y.
2401. *Catalog.* Illus. Describes their shingles, roll roofing, etc.
2402. *Literature.* Describes plan for repair and remodeling work on time payment plan.

Beckman-Dawson Roofing Co., 11 W. Jackson Blvd., Chicago.
2411. *Shelter.* Booklet. 16 pp. Illus. Takes up development of roofing material from primitive times to today.
2412. *Asphalt Shingles.* Series of folders. Deal with tests and application of *Winthrop* tapered shingles.

Bird & Son, East Walpole, Mass.
2453. *Liquid Roof Coating.* Folder. 4 pp. Illus. Explains use as protectant. Includes description of plastic cement.

Boyle & Co., John, Inc., 112 Duane St., New York.
2051. *Prepared Canvas.* 4 pp. Illus. Concerns *Bayonne* roof and deck cloth. Includes prices.

Carey Co., Philip, 520-540 Wayne Ave., Cincinnati, O.
2641. *Before You Build.* Booklet. Discusses use and qualities of *Asfaltslate.* Sample sent.

Certain-teed Products Corp., 100 E. 42nd St., New York.
2673. *Certain-teed Roofs.* Literature. Includes color cards, prices.

Cortright Metal Roofing Co., Philadelphia, Pa.
2831. *Cortright Metal Shingles.* Booklet. 8 pp. Illus. Takes up various designs of this product.
2832. *Catalog.* Illus. Deals with metal shingle roofing.

Edwards Manufacturing Co., Cincinnati, O.
2991. *Edwards Metal Roofing, etc.* Catalog. 224 pp. Illus. Covers complete line of *Edwards* products.

Emack Co., John D., 17 E. 49th St., New York.
3021. *Olde Stonesfield Roofs.* Booklet 37A. Illus. Shows houses with *Olde Stonesfield Roofs.*
3022. *Thatchslate.* Booklet 37B. Illus.

Ford Roofing Products Co., 529 So. Franklin St., Chicago.
3131. *Cyclone Shingles.* Describes the *Ford* asphalt shingle.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.

Johns-Manville, Inc., 292 Madison Ave., New York.
35512. *Asbestos Roofing.* 4 pp. Illus. Takes up *Brooks Brand,* white top roofing.
35513. *Rocks or Rags.* 14 pp. Illus. Tells of material used in *J-M* shingles.
35515. *Ready-to-Lay Roofing.* 16 pp. Ill.

Keystone Roofing Mfg. Co., York, Pa.
3661. *A Distinctive Roof.* Booklet. Describes application of *Hexo-Diamond* slate-coated asphalt shingle. Includes sample.

Knickerbocker Slate Corporation, 153 E. 38th St., New York.
3701. *Slate.* Booklet. 16 pp. Illus. Deals with roofing and structural slate and blackboards.

Malleable Iron Fittings Co., Branford, Conn.
5311. *Nail Knowledge.* Booklet. Illus. 16 pp. Gives data on their zinc coated, rust-proof shingle and slating nails.

Milwaukee Corrugating Co., Milwaukee, Wis.
4006. *Milcor Slate Roofs.* 12 pp. Illus. *Titelock Metal Tile.*
4007. *Milcor Roofs of Permanent Beauty.* 4 pp. Illus. Shows use of Milcor Spanish Tile.

Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City, N. J.
4121. *Shingles That Last.* Illus. Offers various types of metal and asbestos shingles and roofing material.
4122. *Metal Shingles, Spanish Metal Tile, and Metal Roofing.* Literature. Illus.

Nelson Mfg. Co., B. F., Minneapolis, Minn.
4131. *Quality Roofs.* Folder. 12 pp. Illus. Deals with *Nelson Master Slab Roof.* Includes plates in color and samples.

New Jersey Zinc Co., 160 Front St., New York.
4155. *Standing Seam Horse Head Zinc Roofing.* Folder. Includes instructions for laying details, and data.
4157. *The Roof That Is Ever New.* Folder. Illustrated. Describes their Horse Head Zinc Roofing.

Richardson Co., Lockland, Cincinnati, O.
4411. *Biskalt Membrane Roofs.* 36 pp. Contains specifications for applying membrane roof over boards and concrete.
4412. *Roofs of Distinction.* Illus. catalog. 20 pp. Discusses roofing problems, weather defense, etc.
4413. *Lok-Lap Asphalt Shingles.* Illus. 10 pp. Describes laying of this shingle in various designs.
4414. *What Color for the Roof?* Illus. booklet. 19 pp. Takes up uses of *Multicrome* roofs in various styles and types.

Ruberoid Co., 95 Madison Ave., New York.
4481. *Ru-ber-oid Facts Worth Knowing.* Illus. Booklet. 20 pp.
4482. *Eight Folders.* Series of 8. Deals with strip shingles, roofing, liquid fibre-cement, roof coating, etc.

Stearns Lumber Co., A. T., 87 Taylor St., Neponset, Boston.
4642. *Cypress Lumber and Its Uses.* Booklet. Illus. 48 pp. Describes uses of cypress for exterior and interior work.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4819. *Bulletin RT27.* Architectural data. *Pyrobar* construction.
4813. *Bulletin SP2. Sheetrock Pyrofill* roof and floor construction.

Vendor Slate Co., Inc., Easton, Pa.
4861. *A Book for Architects.* Illus. Catalog. 24 pp.
4862. *The Vendor Book of Roofing Slate for Architects.* Illus. 44 pp. Contains information on slate in various architectural uses; comprises treatise on architectural roof design.

Weatherbest Stained Shingle Co., Inc., 145 Main St., North Tonawanda, N. Y.
4961. *Book.* Describes *Weatherbest Thatched Effect Roof Construction.* Also, a set of samples showing *Weatherbest* colors.
4963. *Book.* Devoted to remodeling of old homes.

Wheeling Corrugating Co., Wheeling, W. Va.
5032. *Descriptive literature.*

Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad.* Literature. Describes lead coated sheets, roofing, shingles, spouting, gutter, etc.

ROOF TRUSSES

McKeown Bros. Co., 21 E. 40th St., New York.
3871. *Clear Floor Space.* Folder. 4 pp. Takes up various types of trusses used in building construction.

ROUTERS AND CARVERS—See Woodworking Machinery

RULES—See Drafting and Surveying

SALAMANDERS

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
20512. *Donley Salamanders.* Leaflet. Illus.

SANDERS—See Floor Surfacing Machinery

SANITAS—See Wall Covering

SASH BALANCES—See Hardware, Window

SASH CORDS

Bayley Co., Wm., Springfield, O.
2587. *Bayley-Springfield Operators.* Booklet P19. 8 pp. Illus. Describes apparatus for operating continuous windows.

Samson Cordage Works, 88 Broad St., Boston, Mass.
4501. *There Is a Difference in Sash Cord.* Folder. Illus. Describes *Spot* sash cord and *Phoenix* sash cord.
4502. *Catalog.* Includes samples of sash cord.

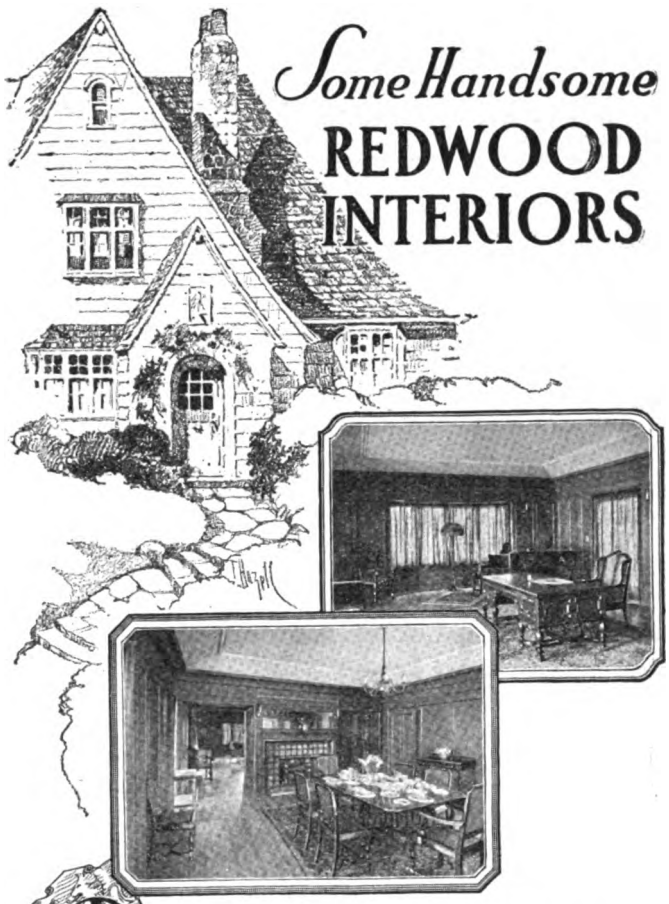
SAW FILES AND SETTERS

Atkins & Co., E. C., Indianapolis, Ind.
2301. *Saws, Saw Tools and Machine Knives.* Catalog. 272 pp. Illus.
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2345. *Descriptive literature.* Illus.
Foley Saw Tool Co., 912-18 E. Lake St., Minneapolis, Minn.
3101. *Foley Automatic Saw Filer and One-Minute Rotary Saw Setting Tool.* Folder. 12 pp. Illus.

SAWS & SAW MACHINERY—See also Woodworking Machinery

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2054. *Sawing with Elbow Grease or Gasoline?* Catalog. Illus.
American Saw Mill Machinery Co., 61 Main St., Hackettstown, N. J.
2171. *Catalog No. 21.* Describes circular saws of all sizes.
2172. *General Catalog. No. 22 and Special Bulletin No. 77.* Describes sawing machinery for use in job and in shop.
Atkins & Co., E. C., Indianapolis, Ind.
2301. *Saws, Saw Tools and Machine Knives.* Catalog. 272 pp. Illus. Covers complete line of *Atkins* saws, saw filers, knives, etc.
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2348. *Barker-State Saws.* Bulletin. Illustrated. Describes universal and fixed type of pedestal electric saws.

Barnes Co., W. F. & John, Rockford, Ill.
2351. *Barnes Catalog.* 38 pp. Illus. Covers line of saws, formers.
2352. *Barnes Motor-Driven and Foot-Power Woodworking Machines.* Booklet. 14 pp. Illus. Takes up various types of machines.
C. H. & E. Manufacturing Co., Clinton & Mineral Sts., Milwaukee, Wis.
2581. *Home Builder's Saw Rig.* Bulletin. 4 pp. Illus. Furnishes description, specifications and prices.
Crescent Machine Co., 206 Main St., Leetonia, O.
2861. *Crescent Saw Tables.* Catalog. 20 pp. Illus. Covers complete line of *Crescent* saw tables. Includes four additions.
DeWalt Products Co., Leola, Lancaster, Pa.
2942. *Portable Motor-Driven Saw Table.* Illus. Deals with the various characteristics of this machine
Gallmeyer & Livingston Co., Grand Rapids, Mich.
3181. *Band Saws and Saw Benches.* Illus. Contained in booklet *Union Woodworking Machines.*
Hutchinson Mfg. Co., Norristown, Pa.
3451. *Don't Let Dollars Slip Through Your Fingers.* Folder. 6 pp. Illus. Describes *Speed Marvel Worker.*
3452. *Bench Jointers.* Folder. 4 pp. Illus. Presents *Speed Marvel* 4 and 6-inch jointers.
3453. *Beaver.* Folder. 4 pp. Illus. Describes Woodworker.
Huther Bros. Saw & Mfg. Co., Rochester, N. Y.
3462. *Huther Catalog.* No. 38. Illus. Covers complete line.
3463. *Huther Pocket Size Catalog.* No. 43. 100 pp. Illus. Describes line of dado heads, milling saws, etc.
Kennedy, Ralph, 117 N. 7th St., Philadelphia, Pa.
3621. *The Kennedy Utility Saw.* Descriptive literature. Describes product for general work.
Parks Ball Bearing Machine Co., 1540-46 Knowlton St., Cincinnati, O.
4261. *Parks Woodworking Machines.* Catalog E. 42 pp. Illus. Includes details and specifications of complete line.
4262. *Cabinet Shop Special.* Bulletin. No. 7. 6 pp. Illus. Describes Parks' combination woodworking saw.
4264. *Planning Mill Special.* Bulletin. C-85. 6 pp. Illus.
Sheldon Mfg. Co., Inc., Box 25, Nehawka, Neb.
4563. *Four Leaflets and Folders.* Illus. Describes their *Model A* portable gas engine, saw rig and *Model B* portable electric



Some Handsome REDWOOD INTERIORS

REDWOOD is primarily the wood for everlasting exteriors. Permeated with a *natural* preservative during growth, it is immune to all forms of decay—is the most economical and most satisfactory lumber and millwork for the outside of frame houses.

No wood outlasts Redwood for clapboards, siding, shingles and cornices, for porch posts, railings, balusters and finish, for sills and foundation timbers, for window and door frames, pergolas, summer houses, garden furniture and greenhouses. Redwood shingles have given forty years of service and remained sound and strong.

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Mississippi Wire Glass Co.
220 FIFTH AVENUE, NEW YORK
Chicago St. Louis

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Selected List of Manufacturers' Literature

(Continued from page 196)

Tannewitz Works, Grand Rapids, Mich.
4741. *Variety Saw Benches.* Bulletin. Describes a machine for all classes of work.
4742. *Sawing Machinery.* Complete Catalog. Illus. Comprises bulletins of many types of machines, with specifications.

Wallace & Co., J. D., 134-158 S. California Ave., Chicago.
4891. *Wallace Bench Machines.* Illus. Loose leaf catalog. 22 pp. Describes various portable machines.
4892. *Wallace Machines for Working Wood.* Illus. Catalog. 23 pp. Lists and describes several types of woodworking equipment.
4893. *The Woodworking Pictorial.* A bulletin of suggestions.

SAW RIGS—See Woodworking Machinery

SCAFFOLDING—See also Brackets

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.
3173. *Gabriel Scaffolding.* Descriptive literature.

Steel Scaffolding Co., Evansville, Ind.
4651. *Catalog C.* Illus. 16 pp. Describes *Trouble-Saver* Steel Scaffolding, giving prices.
4652. *Adjustable Steel Scaffolding.* Descriptive matter.
4653. *Sectional Steel Scaffolding.* Folder. Illus.
4654. *Steel Trestles.* Folder. Illus. Descirptive.
4655. *Roofing Brackets.* Describes several types. Folder.
4656. *Sheathing Brackets.* Leaflet. Illus.

SCHOOLS

Chicago Tech College, 1038 Chicago Tech. Bldg., Chicago.
2711. *How To Read Blue Prints.* Booklet. Illus. Includes set of blue print plans.
2712. *Trial Lesson.* Includes blue prints and description of home-study course in architectural drafting.

SCRAPERS

Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus. Lists such equipment as scrapers, mixers, barrows, hoists, etc.

SCREEN MANUFACTURERS' MACHINERY

DeWalt Products Co., Leola, Lancaster, Pa.
2943. *DeWalt Machinery.* Folder. 4 pp. Illus. Takes up application of this machine for screen manufacture.

Markwell Mfg. Co., 176 Franklin St., New York.
3941. *Markwell Catalog.* 30 pp. Illus. Describes various appliances for the sash and screen maker.
3942. *Screens for Profit.* Folder. 4 pp. Illus

SCREENS

American Brass Co., Waterbury, Conn.
2094. *Screens that Meet the Test.* Booklet. 16 pp. Illus. Describes development of screening from historical angle. Discusses use of *Antique* or *Golden Bronze* wire screens.

American Wire Fabrics Co., 208 S. La Salle St., Chicago.
2221. *Catalog of Screen Wire Cloth.* Illus. Deals with line of black enamel, galvanized, American bronze screen cloth.
2222. *Monel Metal Screen.* Folder. 8 pp. Illus. Describes tests made on monel metal screen cloth. Includes specifications.
2223. *Wire Cloth Table.* Shows number sq. ft. per roll and sq. ft. in various widths and lengths.

Dennis & Co., W. J., 2110 W. Lake St., Chicago.
2912. *Dennis Screen Moulding.* Describes product for use in the making of screens.

Gilbert & Bennet Mfg. Co., 937-9 1st Nat'l Bank Bldg., Chicago.
3241. *Pearl Wire Cloth.* Contains description and samples.

Malia, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes rust-proof fly screens, porch enclosures and metal weather strips.

New Jersey Wire Cloth Co., Trenton, N. J.
4141. *A Matter of Health and Comfort.* Booklet. Illus. Discusses use of *Jersey* copper insect screen cloth. Includes samples.

Wickwire Spencer Steel Corp., Worcester, Mass.
5082. *Hardware Products.* Devotes section to screen cloth.

SEWAGE DISPOSAL—See Plumbing Equipment

SHADES AND SHADE ROLLERS

Edstrom, Wetmore & Henderson, Warren, Pa.
2981. *Automatic Stop Shade Rollers.* Descriptive literature.

SHAFTS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2346. *Flexible Shafts.* Bulletin. Illus.

SHEATHING—See Insulation, also Stucco Base

SHEATHING PAPER—See Building Paper

SHELVES

Garden City Plating & Mfg. Co., 1430 S. Talman Ave., Chicago.
3191. *Adjustable Shelves.* Literature. Includes samples.

SHINGLES—See Roofing Materials

SHINGLE STAINS—See Paints, Stains, Varnishes.

SHOWERS—See also Plumbing, also Bathroom Fixtures.

Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
3631. *Kenney Curtainless Shower.* Catalog A. Illus. Concerns several types of curtainless showers.

SKYLIGHTS

American 3-Way Luxifer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2203. *3-Way Ventilating Skylights.* 4 pp. Illus. Treats with product designed for public garages, laundries, etc.
2204. *Steelead.* Describes puttyless, metal skylight construction.
2205. *3-Way Reinforced Concrete.* Discusses concrete and glass.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus. Covers entire line of pdoructs.

Milwaukee Corrugating Co., Milwaukee, Wis.
4008. *Milcor Guide.* Illus. Explains details of *Puttyless Skylight.*

SLATE—See also Roofing Materials

Emack Co., John D., 17 E. 49th St., New York.
3022. *Thatchslate.* Booklet 37B. Illus.
3023. *Olde Stonesfield Flagging, Walks, Terraces and Coping.* Booklet 37C. Illus.

Knickerbocker Slate Corporation, 153 E. 38th St., New York.
3701. *Slate.* Booklet. 16 pp. Illus. Deals with roofing and structural slate and blackboards.

Structural Slate Co., Pen Argyl, Pa.
4701. *Structural Service Data and Standards.* Takes up properties, uses and specifications of structural products.
4702. *Plumbing Catalog.* Deals with slate for the contractor.

Vendor Slate Co., Inc., Easton, Pa.
4861. *A Book for Architects.* Illus. Catalog 24 pp.
4862. *The Vendor Book of Roofing Slate for Architects.* Illus. 44 pp. Contains information on slate in various uses.

SOUND DEADENING MATERIAL—See Insulation

STAIR TREADS

Alberene Stone Co., 153 W. 23d St., New York.
2034. *Illustrated Literature* on stair treads of soapstone.

Norton Co., Worcester, Mass.
4211. *Norton Floors.* Booklet. 24 pp. Describes the several types of *Alundum* floor with reference to their applications.
4212. *Norton Floors.* Monthly House Organ. 4 pp. Illus. Deals with installation of Norton *Alundum* floors.
4213. *Alundum Safety Tile.* Booklet. 38 pp. Presents one type.

Safety Stair Tread Co., Wooster, O.
4491. *Wooster Safe-Groove Stair Treads.* Catalog. Describes these treads and thresholds and security nosing made of white brass, brass and black steel.
4492. *The Wear on Stairs.* Catalog. Deals with methods of repairing worn stairs.
4493. *Stair Nosing, Wooster Security Nosing.* Catalog. Describes method of protecting edges of various flooring materials.

Universal Safety Stair Tread Co., 40 Court St., Boston.
5381. *Universal Safety Tread.* Booklet. Discusses installations on cement, metal or wood steps.

Wright Rubber Products Co., Racine, Wis.
5141. *Illustrated Folder.* Describes their rubber stair tread.

STAIRWAYS, MOVABLE

Bessler Movable Stairway Co., Akron, O., or 103 Park Ave., New York.
2431. *Don't You Wish You Had More Room?* Bulletin. 8 pp. Illus. Explains use of disappearing stairway to attic.

Farley & Loetscher Mfg. Co., Dubuque, Ia.
5201. *Presto Sliding Stairs.* Descriptive literature. Includes prices.

STANDARD BUILDINGS—See Building Construction

STORE FRONTS

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Kawneer Co., 225 Front St., Niles, Mich.
3596. *Contractors' Design Book.* 128 pp. Illus. Presents selected list of store front designs.
3597. *Details Kawneer Solid Copper Store Front Construction.* Catalog L, 1925 edition. 32 pp. Illus. Comprises a treatise on installation of Kawneer solid copper store front construction. Includes sectional and detail views of various members.

Zouri Drawn Metals Co., 1608 East End Ave., Chicago Heights, Ill.
5151. *Getting People In.* Booklet. Illus. Gives plans and diagrams. Shows methods of arranging window display space.
5152. *Zouri Store Fronts.* Booklet. Illus. 31 pp. Shows various types of store fronts. Includes detail drawings.

STOVES AND RANGES—See Ranges, Heating Equipment

STUCCO—See also Cement

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2463. *Bishopric for All Time and Clime.* Booklet. Illus. 44 pp.
2461. *Bishopric Lunfast Finish.* Folder. Illus.
2467. *Old Colony.* Booklet. Describes this stucco.

Flint Rock Stucco Co., Fourth St., Arcade Bldg., Dayton, O.
5681. *Keylock Base.* Literature. Describes waterproof, fibre base wood strip product for stucco and plaster.

Lehigh Portland Cement Co., 30 E. 42nd St., New York.
3771. *Build the Castle of Your Dreams.* 32 pp. Deals with concrete home construction.
3772. *Permanent Satisfaction in Your Building.* Illus. Book.
3773. *The Lehigh Magazine.* New House Monthly.

Master Builders Co., Cleveland, O.
5321. *Booklet.* Describes *Mastertex,* their water-proofing paint for stucco, concrete, etc.

Muller, Franklyn R., Inc., Waukegan, Ill.
4053. *Asbestone.* 16 pp. Illus. Shows details and pictures of installation of *Asbestone* magnesite stucco.
4054. *Instructions for applying Asbestone stucco.* 8 pp. Illus.

Portland Cement Assn., 111 W. Washington St., Chicago.
4353. *Portland Cement Stucco.* Bulletin. Illus. Contains data on materials, proportion, etc., and discusses approved practices.

Rocbond Co., Van Wert, O.
4461. *Better Homes.* Illus. Booklet. Describes properties of Rocbond Stucco for exterior surfaces.
4462. *Homey Homes.* Illus. Booklet. 20 pp. Shows houses of different kinds in which Rocbond Stucco has been used.

United States Gypsum Co., 205 W. Monroe St., Chicago.
48115. *Oriental Stucco Handbook, OS3.* Illus. in color and sepia.
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.

STUCCO AND PLASTER BASES

Armstrong Cork & Insulation Co., 197 24th St., Pittsburgh.
5531. *Armstrong Corkboard.* Bulletins. Illus. Material includes structural details and method of laying as a plaster base.

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2468. *Bishopric for All Time and Clime.* Catalog. Illus. 42 pp. Describes use of their stucco and plaster base and sheathing.

Bostwick Steel Lath Co., Niles, O.
2481. *Bostwick Economy.* Literature on Bostwick Metal Laths.

Celotex Company, 111 W. Washington St., Chicago.
2661. *Your Home.* Catalog. Gives information concerning *Celotex,* and deals with homes. Price, 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.

Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

Flaxlinum Insulating Co., St. Paul, Minn.
3083. *Standard Specifications.* File 19G. Illus. Contains specifications for insulating with Flax-li-num Keyboard.

General Fireproofing Co., Youngstown, O.
3229. *Herringbone Rigid Metal Lath.* Catalog. 48 pp. Illus.
32211. *Trussit.* Booklet. 16 pp. Illus. Also folder. 16 pp. Illus. Describes reinforcement for partitions and curtain walls.
32212. *GF Diamond Rib Metal Lath.* Booklet. 8 pp. Illus.

Milwaukee Corrugating Co., Milwaukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.

New Jersey Wire Cloth Co., Trenton, N. J.
4142. *Roebling Wire Lath.* Catalog. 30 pp. Illus. Deals with product and its application as a plaster base.

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Practical Men Prefer Bostwick

THE closer a man is to the job, the more he appreciates the special merits of Bostwick "Truss-Loop" Metal Lath.

The building contractor who has actually worked with his own hands, the contracting plasterer familiar with every type of under surface, the architect or engineer with a bent for structural detail—all unite in their preference for Bostwick.

Bostwick "Truss-Loop" The Home Builder's Friend

While second to none in applicability to large steel construction, Bostwick has won exclusive place as the lath to use in fine frame houses.

Home builders know that they can make effective use of every foot of Bostwick "Truss-Loop" Lath, because it requires practically no overlap. They know it is easy to handle and easy to nail to joist and stud.

They know it saves a quarter of the plaster in comparison with many other types of lath and that plastering can be done faster and better over its firm, true backing.

They know that it keys the plaster perfectly over supports—just as well as between supports, that it is self-furring in most situations and has a rigidity of its own; that fine homes up to 35 years old exhibit perfect plaste where Bostwick Lath was used.

Send for "Bostwick Economy," a catalog of construction, and other booklets describing Bostwick merits.

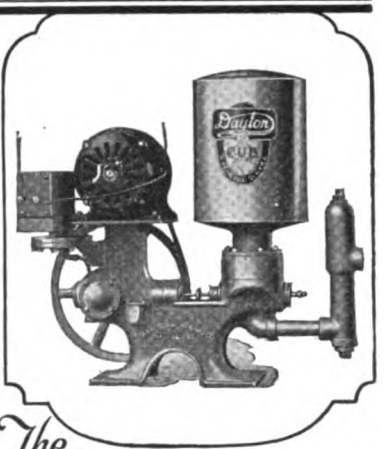
THE BOSTWICK STEEL LATH CO
NILES, OHIO

Member of National Council for Better Plastering

Bostwick
TRUSS-LOOP
METAL LATH

SUBURBAN WATER SYSTEMS





The New DAYTON CUB $85

The DAYTON "Cub" is an outstanding value at its low price of $85.00. It is recommended where source of supply is not more than 22' (vertical) below pump and a supply up to 200 gallons per hour is needed. It occupies little space and like other DAYTON models is covered by a written guarantee.

An Ideal Line-up!

Builders and architects who now invariably specify DAYTON Automatic Water Supply Systems for any running water requirement have not depended upon reputation alone to establish DAYTON supremacy. Comparison of mechanical features has many times settled the matter of superior performance and dependable operation.

With dependability established, the builder too, has a further reason for specifying a DAYTON—*Completeness.* With the new DAYTON "Cub", having a capacity of 200 gallons per hour and selling as low as $85.00, and other models ranging in capacities up to 3000 gallons per hour for either shallow or deep wells, the DAYTON line-up will meet every requirement in city, suburban or country home.

You should have this valuable booklet, *"Dependable Water Service,"* which contains practical information about sanitary water systems that every architect and builder should know. It is yours for the asking. This booklet should be in your reference file, also free information service blanks with which to secure experienced recommendation of the correct model for any job. May we send it to you?



The Dayton Pump & Mfg. Co.
DAYTON, OHIO
U. S. A.



Tear off and pin to your letter head

Please send, at once, my copy of "Dependable Water Service."

Name .....
Address .....
City .....

"Dayton" Pumps

Make the water do the running

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Selected List of Manufacturers' Literature

(Continued from page 198)

NorthWestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4201. *NorthWestern.* General Catalog. 16 pp. Illus. Covers complete line of *NorthWestern* products including *Kno-Burn* metal lath, *Longspan Plasta-Saver, Nemco* channels.
4202. *Home Building.* Booklet. 32 pp. Illus. Brings out details of home construction and interior finish, suggests built-in conveniences, means of preventing plaster cracks, etc.
4204. *Better Plastering.* Booklet. 12 pp. Illus. Deals with interior plastering. Shows plates of several different types.

Sykes Metal Lath Co., Niles, O.
4731. *Metal Lath for All Purposes.* Illus. Booklet. 20 pp. Contains information pertaining to their metal lath
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with metal lath and steel building specialties, with specifications and details.

Truscon Steel Co., Youngstown, O.
4799. *Hy-Rib and Metal Lath.* Catalog. Illus. 64 pp. Gives properties of laths, specifications, special uses and views.

United States Gypsum Co., 205 W. Monroe St., Chicago.
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.

Wheeling Corrugating Co., Wheeling, W. Va.
5032. Descriptive literature.

Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes specifications for using wire lath.

SURVEYORS' INSTRUMENTS—See Drafting and Surveying

TELEPHONES—See also Electrical Equipment

Western Electric Co., New York.
5001. *Inter-Phones Systems.* Descriptive literature.

THERMOSTATS—See Heating Equipment

TILE MANUFACTURE

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.

TILE, STEEL

General Fireproofing Co., Youngstown, O.
32215. *GF Steel Tile.* Catalog. 32 pp. Illus. Contains description and specifications. Also folder. 12 pp. Illus.

Milwaukee Corrugating Co., Milwukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.

TOOLS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2344. *Hammers.* Bulletin. Illus.

Combination Blow Torch Mfg. Co., 2805 W. Van Buren St., Chicago.
5591. *Literature.* Describes combination blow torch soldering and branding iron.

Everhot Manufacturing Co., Maywood, Ill.
3033. *Everhot Soldering Irons.* Descriptive literature.
3034. *Everhot Hammers.* Descriptive literature.
3036. *Everhot Shovels.* Descriptive literature.

Koehring Co., 31st and Concordia Sts., Milwaukee, Wis.
3712. *Koehring Booklet.* Lists complete line of products.

Mack Tool Co., Inc., W. Commercial St., East Rochester, N. Y.
3881. *Catalog and Price List.* 20 pp. Illus. Contains complete line of *D. R. Burton* planes, gouges, hatchets, etc.

Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.
4171. *General Catalog.* No. 10. Illus. Presents complete line of hardware specialties and carpenters' tools.

Progressive Mfg. Co., Torrington, Conn.
4361. *Forstner Bits.* Booklet. Illus. Contains specifications, prices, and directions for use.

Sargent & Co., New Haven, Conn.
4523. *Sargent Standard Steel Squares.* Booklet. 32 pp. Illus. Contains specifications and information.
4524. *Sargent Planes.* Catalog. 64 pp. Illus. Includes specifications and prices on complete line of planes.

Swan Co., James, Seymour, Conn.
4711. *Catalog.* 104 pp. Describes *Premium Mechanic's Tools.*
4712. *Booklet.* Illus. 32 pp. Lists and briefly describes tools.

Star Expansion Bolt Co., 147 Cedar St., New York.
5331. *Literature.* Describes *Dryvins,* their expansion shield.

White Co., L. & I. J., Buffalo, N. Y.
5061. *Catalog 19A.* Describes carpenters' tools.
5062. *Catalog 20B.* Describes coopers' tools.
5063. *Several Folders.* Deal with high speed knives.

TOOLS, AIR

Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.
2791. *Berg Electric Air Cushion Hammer.* 6 pp. Illus. Deals with concrete surfacing and finishing apparatus.

TOOLS, EDGE

Atkins & Co., E. C., Indianapolis, Ind.
2301. *Saws, Saw Tools and Machine Knives.* Catalog. 272 pp. Illus. Covers complete line of Atkins saws, saw files, knives.

Everhot Manufacturing Co., Maywood, Ill.
3035. *Everhot Hatchets.* Descriptive literature.

Fox Supply Co., Brooklyn, Wis.
3164. *Scraping Knives.* Descriptive literature. Describes floor scraping knives, furnishing tools, and hand scrapers.

Mack Tool Co., Inc., W. Commercial St., East Rochester, N. Y.
3881. *Catalog and Price List.* 20 pp. Illus. Contains complete line of D. R. Barton planes, gouges, hatchets, etc.

Swan Co., James, Seymour, Conn.
4711. *Catalog.* 104 pp. Describes *Premium Mechanic's Tools.*
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5062. *Catalog 20B.* Describes coopers' tools.
5063. *Several Folders.* Deal with high speed knives.

TOOLS, MARKING—See Marking Devices

TRAPS—Steam and Radiator

Johns-Manville, Inc., 292 Madison Ave., New York.
35516. *Steam Traps.* Catalog. 8 pp. Illus. Includes specifications.

TRANSITS—See Drafting and Surveying

TRESTLES—See Scaffolding

TRUCKS—MOTOR

Ford Motor Co., Detroit, Mich.
3121. *Power & Haulage.* Monthly Magazine. Contains information on *Fordson* tractor and *Ford* truck.
3122. *The Fordson.* Magazine. Includes occasional stories on trucks on the farm.

General Motors Truck Co., Pontiac, Mich.
3231. *G. M. C. Trucks 1 to 15 tons Capacity.* Catalog. 48 pp. Illus. Covers complete line.

TRUCKS, MOTOR—SUPPLIES

Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4287. *Ball & Ball Carburetor.* 8 pp. Illus. Shows details of Model SV-26.
4288. *Lubricating Devices.* 2 folders. Describe priming caps.

Warford Corp., 44 Whitehall St., New York.
4911. *Folder.* Describes and illustrates their auxiliary transmission for Ford Trucks.
4912. *Warford Selection Type Auxiliary Transmission for Ford Trucks and Pleasure Cars.* Folder.

TRUSSES—See Roof Trusses

VALVES—See also Plumbing Equipment

Crane Co., 836 S. Michigan Ave., Chicago.
2844. *Steam Pocket Catalog.* No. 50. 775 pp. Illus. Contains complete description of Crane line.

Johnson Plumbing Supply Co., 3641-43 So. Halsted St., Chicago.
3571. *Johnson Catalog.* Illus. Covers entire line of plumbing and bathroom equipment, boilers, valves, and radiators.

VAULT LIGHTS

American 3 Way-Luxfer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2207. *Daylight.* 16-pp. 3 Way-Luxifer armored sidewalk lights.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

VENEER AND VENEERING

American Plywood Corp., New London, Wis.
2151. *Plywood Stock List.* Concerns panels for built-in work.

Wheeler, Osgood Co., Tacoma, Wash.
5023. *Leaflet.* Describes *Laminex* panels. Explains waterproof properties.
5021. *Laminex Book.* For architects and the building trade.

VENTILATION AND VENTILATORS

Globe Ventilator Co., Dept. L, Troy, N. Y.
3261. *Globe Ventilator* and *Globe Chimney Cap.* Provide specifications on contract work.

Lupton's Sons Co., David, Philadelphia, Pa.
3848. *Literature.* Illus. Describes ventilators and conductor pipe

Milwaukee Corrugating Co., Milwaukee, Wis.
4009. *Nu-Air and Milwaukee Stationary Ventilators.* 16 pp. Illus.

Washburne & Co., E. G., 207 Fulton St., New York.
4932. *Descriptive Price List of Rotary Exhaust Ventilators.*

WALLBOARD

Asbestos Shingle, Slate & Sheathing Co., Ambler, Pa.
2285. *Descriptive Matter.* Illus. Deals with *Linabestos,* and asbestos wall board.

Beaver Products Co., Inc., Buffalo, N. Y.
2403. *Folder.* Illus. Describes uses and methods of handling *Beaver Board.*

United States Gypsum Co., 205 W. Monroe St., Chicago.
48111. *Gyplath.* Catalogue Ga.
48112. *Architects' Specifications for Gyplath.*
48117. *Sheetrock Catalog.* Bulletin WB61.
48118. *Sheetrock Tile Board.* Folder WB61.

Upson Co., Lockport, N. Y.
4851. *Walls & Ceilings of Enduring Charm.* Illus. Booklet. 16 pp. Describes qualities of Upson Board.
4852. *The Snow White Lining.* Illustrated catalog. 16 pp. Describes Upson Fibre Tile used in bathrooms and kitchens.
4853. *4-Page Folder.* Contains description of the Upson Blue Book of working plans and sketches for interior finishing with Upson Board. Blue Book is distributed to lumber dealers for use by builders. Single blue prints, price 25 cents.
4854. *The Upsonizer.* March-April issue. 24 pp. Illus. Deals with the merchandising problems of the builder.

WALL COVERING

Lloyd, W. H. S., 105 W. 40th St., New York.
5741. *Wallpaper.* Literature. Deals with company's line of imported wallpapers.
5742. *Anaglypta.* Deals with composition friezes to substitute for plaster relief.
5743. *Grass Cloth.* Booklet. Illus. Takes up line of imported grass cloths for interior decoration.

Morene Products Co., Inc., 241 W. 28th St., New York.
5371. *Morene, the Wall Finish Distinctive; a Portland Cement Product—Atlas White.* Brochure. Illustrated. Shows examples of *Morene* used for ceiling and mural decorations.

Standard Textile Products Co., 320 Broadway, N. Y.
4631. *Book of Samples in Color.* Shows design and texture of Sanitas, their sanitary cloth wall coverings.

WALLPAPER

Lloyd, W. H. S., 105 W. 40th St., New York.
5741. *Wallpaper.* Literature. Deals with company's line of imported wall papers.

WATER GAUGES—See Plumbing Equipment

WATER HEATER

American Heating & Lighting Co., Morenci, Mich.
2132. *How to Install a Water Heater.* 8 pp. Illus. Deals with cold process gasoline gas heaters.

Crane Co., 836 S. Michigan Ave., Chicago.
2843. *Crane Water Heater.* Booklet. Illus.

Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, and pneumatic waterworks fields.

Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4282. *Noiseless Water Heater.* 4 pp. Illus. Includes specifications.

Richardson & Boynton Co., 260 5th Ave., New York.
5223. *The Richardson Manual.* 419 pp. Illus. Gives data on "Richardson" Boiler for steam, hot water and vapor system, "Perfect" Warm-Air and Pipeless Furnaces, tank heaters and ranges.
5221. *Richardson Hot Water Heater. Describes Galvoxide Water Section* for use in connection with the *Richardson.*
5222. *Your Store.* This and another Booklet, for dealers.

Standard Gas Equipment Corp., 18-22 E. 41st St., New York.
4626. *Vulcan Gas Water Heater.* Booklet. Illus.

WATERPROOFING—See also Dampproofing

Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints and Insulating Paper.*

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interior trim, doors, floors and paneling assure that elegance, permanence and mar-proof hardness of interior finish, which not only reflect credit on the architect and builder but satisfy their clients' practical demands.



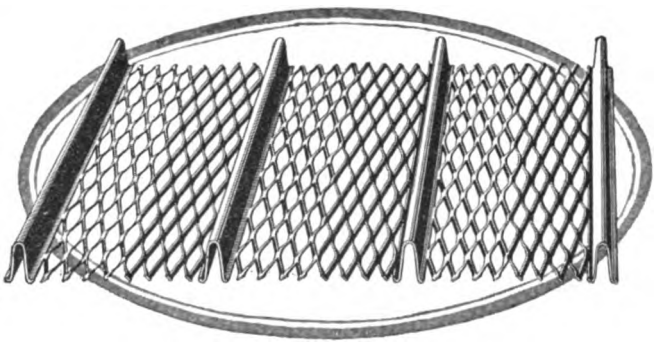
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Northern **birch** is equally adaptable to the modest home or finest office building. It gives excellent results with any stain, is unrivaled for enamels and exhibits rare beauty in natural finish. Its extreme hardness makes **birch** unexcelled for floors, waxed, varnished or stained. **birch** rotary-cut veneers are noted for their enduring elegance—the dense, close grain of **birch** prevents the tendency to checking, common to some woods.

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Selected List of Manufacturers' Literature

(Continued from page 200)

Cabot, Samuel, Inc., 141 Milk St., Boston, Mass.
2594. *Cabot's Waterproofing Specialties.* Booklet. 14 pp. Illus. Covers damproofing, clear brick waterproofing, and clear cement waterproofing.

Consumers' Asbestos Corp., 80 Wall St., New York.
2811. *Damp-Trufe.* Descriptive literature. Illustrated. Concerns use of products for cellar work.

Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

General Fireproofing Co., Youngstown, O.
32216. *The Waterproofing Handbook.* Catalog. 72 pp. Illus

Johns-Manville, Inc., 292 Madison Ave., New York.
35517. *Aquadom.* Folder. 4 pp. Illus. Explains use.

Master Builders Co., Cleveland, O.
5321. *Booklet.* Describes *Mastertex,* their waterproofing paint for stucco, concrete, etc.

Morene Products Co., Inc., 241 W. 28th St., New York.
5373. *Folder.* Describes *Kemisol,* waterproofing and preservative for stone, brick, concrete and cement surfaces above ground.

Sandusky Cement Co., Cleveland, O.
5181. *Medusa Waterproofing.* Literature. Gives specifications and tables on *Medusa Waterproofing* in powder and paste forms.

Sommers & Co., Ltd., 342 Madison Avenue, New York.
5631. *Permantite Liquid Waterproofing.* Folder. 4 pp. Describes product for making concrete impermeable. Includes tables.
5632. *Permantite Damproofing Coating.* 6 pp. Deals with compound for brick, stone or terra cotta walls.

WATER SYSTEMS—See also Plumbing Equipment

Dayton Pump & Mfg. Co., Dayton, Ohio.
2902. *Catalog.* Illus. Deals with various types of water systems.

Duro Pump & Mfg. Co., 309 Monument Ave., Dayton, Ohio.
6671. *Duro-matic Way.* Information on the operation of Duro automatic water softeners.

Fairbanks, Morse & Co., 900 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets. Directs attention of builders and architects to home water systems.

Flint & Walling Mfg. Co., Kendallville, Ind.
3091. *Running Water Under Pressure.* Catalog No. 115. 48 pp. Illus. Deals with water systems including pumps, tanks, etc.

Hardin-Lavin Co., 121-31 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing and heating equipment. 50 cents.

Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, and pneumatic waterworks fields.

Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 57. 414 pp. Illus. Presents complete line of Myers pumps, door hangers, store ladders, etc.

WEATHER STRIPS

Allmetal Weatherstrip Co., 229 West Illinois St., Chicago.
2041. *Circular.* 6 pp. Illus. Describes uses for hotels, residences.

Burrowes Weatherstrip Co., 1930 S. 52nd St., Chicago.
5491. *Do Your Windows Hold Out the Cold?* 4 pp. Illustrated. Deals with heat waste through uninsulated windows.
5492. *Dealer Proposition.* Information on open territories.

Ceco Weatherstrip Co., 1926 So. 52nd St., Chicago.
2851. *Ceco Metal Weatherstrips.* Catalog. Illus. 16 pp. Describes these weatherstrips and their installation.

Dennis & Co., W. J., 210 W. Lake St., Chicago.
2911. *D. D. C. Spring Bronze Weatherstrip.* Includes sample, description and method of installation.

Diamond Metal Weatherstrip Co., 412 Spruce St., Columbus, O.
5621. *Diamond Weatherstrip.* Takes up details and installation of metal weatherstrip.

Federal Metal Weather Strip Co., 1238-50 Fullerton Ave., Chicago, Ill.
3071. *Does it Pay?* Folder. 4 pp. Illus. Concerns the question of using weather strip.
3072. *Window and Door Equipment.* Folder. 4 pp. Illus. Includes detail drawings.

Hoffbauer Co., Inc., 101 Park Ave., New York.
3411. *Metal Weather Strips.* Folder. 4 pp. Illus.

Malia, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes metal weather strips, porch enclosures and rust-proof fly screens.

Victor Parting Bead Co., Dept. B, Reading, Pa.
4871. *How To Install Victor Parting Beads.* Booklet. Illus. with photographs and detail drawings.
4872. *Through the Closed Window.* Booklet. Illus. Discusses weather protection. Illustrates their parting bead.

WEATHER VANES

Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Copper Weather Vanes.* Illus. Catalog. 32 pp. Shows different designs of weather vanes and lightning rods.

WINDOWS, METAL

Bayley Co., Wm., Springfield, O.
2382. *Bayley-Springfield Steel Fire Windows.* Bulletin F21. 4 pp. Illus. Includes discussion of tests made on product.
2383. *Bayley-Springfield Steel Office and Schoolhouse Windows.* Bulletin AA21. 4 pp. Illus. Details and description.
2385. *Bayley-Springfield Steel Windows for Basements.* 4 pp. Illus.
2386. *Bayley-Springfield Projected Ventilators, Steel Windows.* 4 pp. Illus. Details and description.

Crittal Casement Window Co., 10957 Hearns Ave., Detroit, Mich.
2871. *Standard Steel Casements.* Catalog. 2-24. Illus. Includes data and details concerning *Crittal* copper bearing steel casement windows for residences, clubs, etc.
2872. *Cottage Casements.* Pamphlet. Illus. Deals with copper bearing steel window designed for less prominent positions.

Detroit Steel Products Co., 2252 E. Grand Blvd., Detroit, Mich.
2921. *Fenestra Casement Windows.* 20 pp. Illus. Describe steel casement windows with details and specifications.
2922. *Fenestra Basement Windows.* Booklet. 16 pp. Gives description, specifications and details.
2923. *Fenestra Reversible Ventilator Windows.* 20 pp. Illus.
2924. *Fenestra Counter-Balanced Windows.* Catalog. 111 pp. Illus.
2925. *Fenestra Industrial Window Walls.* Catalog. 111 pp. Illus.
2926. *Fenestra Steel Windows for Schools.* Booklet. 32 pages. Illustrated. Describes types and sizes of school windows.

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2956. *Donley Basement Windows.* 16 pp. Illus. Gives details.

Hope & Sons, Ltd., Henry, 103 Park Ave., New York.
3431. *Hope's Casements.* Circular. Illus. Covers line of standard size and type steel casements.

Lupton's Sons Co., David, Philadelphia, Pa.
3845. *Industrial Windows.* Catalog No. 12-A. Illustrated. Deals with steel windows for industrial use.

Truscon Steel Co., Youngstown, O.
4795. *Truscon Steel Sash.* Illus. 80 pp. Handbook
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog. Contains designing data, tables and views of Stock Sash installations.

WINDOWS—WOOD

Andersen Lumber Co., Bayport, Minn.
2241. *Andersen Window Frames.* 24 pp. Illus. General catalog of White Pine Frames.
2242. *Better Frames for Your Money.* 6 pp. Illus

California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of information Sheets on California White and Sugar Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.

Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.

Wheeler, Osgood Co., Tacoma, Wash.
5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of *Laminex* and *Woco* doors and includes description of *Woco* window sash.

WIRE, IRON, BRASS AND BRONZE PRODUCTS—See also Ornamental Iron and Brass

Meyers Mfg. Co., Fred J., Hamilton, O.
3981. *General Catalog.* 110 pp. Illus. Covers entire line of wire, iron, Bronze and brass products.
3982. *Folder.* 4 pp. Illus. Describes new type of grille for the house screen door.

New Jersey Wire Cloth Co., Trenton, N. J.
4143. *Wire Work.* Descriptive literature. Illus. Treats upon wire lath, screens and kindred wire products.

Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4203. *Practical Machine Guards.* Catalog. 36 pp. Illus. Shows application of *Econo* mesh for this duty.

WIRE CLOTH—See Screens

WIRE GLASS—See Glass

WOODWORK—See Lumber and Woodwork

WOODWORKING MACHINERY

American Saw Mill Machinery Co., 61 Main St., Hackettstown, N. J.
2172. *General Catalog No. 22 and Contractors' Bulletin No. 77.*
2173. *General Catalog No. 23.* Illus. 208 pp.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2341. *Electric Portable Sander.* Bulletin BE. Illus.

Barnes Co., W. F. & John, Rockford, Ill.
2351. *Barnes Catalog.* 38 pp. Illus. Covers line of saws, etc.
2352. *Barnes Motor Driven and Foot Power Woodworking Machines.* Booklet. 14 pp. Illus. Takes up various types.

Black Bros. Co., Inc., Mendato, Ill.
2472. *Black Veneer and Glue Room Equipment.* Catalog No. 11. 16 pp. Illus. Covers the line of clamps, presses, mortising machinery and sandpaperers.

Buffalo Forge Co., 476 Broadway, Buffalo, N. Y.
2541. Catalog, 850-54. Describes the *Buffalo* Woodworker.

C. H. & E. Mfg. Co., 259 Mineral St., Milwaukee, Wis.
2585. *Portable Saw Rigs.* Illus. Takes up six sizes with power built in and under table.

Colgan Machinery & Supply Co., 16 E. Broad St., Columbus, O.
2741. *Would You Bore Holes with a Hot Iron?* Folder. 4 pp. Illus. Describes *Champion* hand power and electric power mortisers.

Crescent Machine Co., 206 Main St., Leetonia, O.
2861. *Crescent Saw Tables.* Catalog. 20 pp. Illus. Covers complete line of *Crescent* saw tables. Includes four additions.

DeWalt Products Co., Leola, Pa.
2941. *DeWalt Woodworker.* Folder. 4 pp. Illus. Furnishes information regarding *DeWalt* universal woodworker.

Gallmeyer & Livingston Co., Grand Rapids, Mich.
3181. *Union Woodworking Machines.* Booklet. 16 pp. Illus.
3182. *Woodworking Machinery.* Booklet. 14 pp. Illus.

Hutchinson Mfg. Co., Norristown, Pa.
3451. *Don't Let Dollars Slip Through Your Fingers.* Folder. 6 pp. Illus. Describes *Speed Marvel Worker.*
3452. *Bench Jointers.* Folder. 4 pp. Illus. Presents Speed Marvel 4" and 6" jointers.
3453. *Beaver.* Folder. 4 pp. Illus.

Kennedy, Ralph, 117 N. 7th St., Philadelphia, Pa.
3621. *The Kennedy Utility Saw.* Descriptive literature. Describes product for general work.

Kornau Machine Co., Gulow and Vendalia Sts., Cincinnati, O.
3731. *Upright Hollow Chisel Mortiser.* Data and description.

Markwell Mfg. Co., 176 Franklin St., New York.
3941. *Markwell Catalog.* 33 pp. Illus. Describes various appliances for the sash and screen maker.

Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.
3961. *Master Woodworker.* 18 pp. Describes model No. 7.

Parks Ball Bearing Machine Co., 1540-46 Knowlton St., Cincinnati, O.
4261. *Parks Woodworking Machines.* Catalog E. 42 pp. Illus. Includes details and specifications of complete line.
4262. *Cabinet Shop Special.* Bulletin. No. 7. 6 pp. Illus. Describes *Parks* combination woodworking saw.
4263. *Contractors' Special Swing Cut-off Saw.* Bulletin. 4 pp.
4264. *Planing Mill Special.* Bulletin. C-85. 6 pp. Illus.

Sheldon Mfg. Co., Inc., Box 25, Nehawka, Neb.
4563. *Four Leaflets and Folders.* Illus. Describe their *Model A* portable gas engine, saw rig and *Model B* portable electric.

Sidney Machine Tool Co., Sidney, O.
4581. *Famous Woodworking Machinery.* Catalog, pocket size,
4582. *Booklet.* 12 pp. Illus. Gives additional information.

Wallace & Co., J. D., 134-158 S. California Ave., Chicago.
4891. *Wallace Bench Machines.* Illus. Loose Leaf Catalog. 22 pp.
4892. *Wallace Machines for Working Wood.* Illus. Catalog.
4893. *The Woodworking Pictorial.* A Bulletin of suggestions.

ZINC—See Leaders, Flashings and Gutters; also Roofing Materials

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7 days strength in 48 hours!

Tests made by the Bureau of Standards and The Solvay Process Company prove that Portland Cement, gauged by a solution of Solvay Calcium Chloride, attains greater strength in 48 hours than a corresponding mixture, with plain water, attains in 7 days!

The final set and strength of the concrete are in no way affected by the use of Solvay. In fact, tests indicate the final strength is increased by its use.

Solvay also waterproofs, strengthens and protects concrete against freezing temperatures.

SOLVAY Calcium Chloride

Solvay is shipped in 375-pound non-returnable metal drums or easy-to-handle 100-pound moisture-proof burlap paper-lined bags.

Seventy-five convenient distribution points in the United States give prompt service, with minimum transportation charges. It will pay you to use Solvay. Write for latest information at once.

Write for Booklet No. 2353

Don't forget that Solvay accelerates the set of concrete, and can be used often to advantage in the mix!

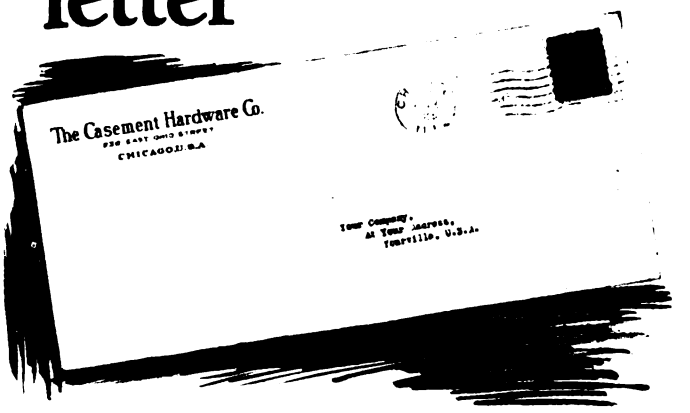
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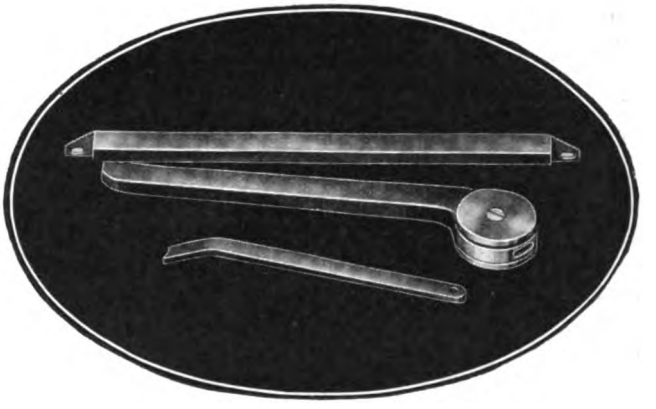
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CASEMENT OPERATOR

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Trend of Material Prices

THE following are wholesale prices of basic building materials in the three markets which set prices for the rest of the country.

These prices are presented to show the trend of the wholesale market, which forecasts prices in the retail market. They are not prices which the average contractor can buy at, but are quoted to show him the movement of materials so that he can buy to better advantage. All prices are for carload lots, F. O. B. market quoted, unless otherwise noted.

Following in conjunction with the Review of Building Situation these prices will prove invaluable.

NEW YORK PRICES

	July 25	Aug. 25
LONG LEAF YELLOW PINE—		
B. & Better Edge Grain Flooring, 25/32x2¼" Face	$86.00	$86.00
Dimensions, S1S1E, No. 1 Common, 2x4 in., 10..	43.75	43.75
Timbers, Merchantable, 05, 12x12", 10 to 20'....	53.00	53.00
B. and Better Ceiling, ½x3¼.....	42.00	42.00
B. and Better Partitions, ½x3¼ in.....	56.00	56.00
B. and Better Finish, 1x4".....	68.25	68.50
No. 1 Common Boards, 1x8".....	49.75	49.75
NORTH CAROLINA PINE—		
No. 2 and Better Flooring, 13/16x2½".....	$62.00	$62.00
Roofers, 13/16x5½ in.....	33.50	33.50
DOUGLAS FIR—		
No. 2 Clear and Better V. G. Flooring, 1x3"....	$66.50	$66.50
No. 1 Clear V. G. Flooring, 1x4 in.....	69.00	69.00
No. 2 Clear and Better Ceiling, ⅝x4 in.....	41.50	41.50
No. 2 Clear and Better Novelty Siding, 1x6"....	54.00	54.00
No. 2 Clear and Better V. G. Stepping.....	91.00	91.00
WESTERN RED CEDAR—		
B. C. Perfection Shingle, per M.....	$7.23	$7.23
Washington Perfection Shingles, per M.....	6.83	6.83
Clear Bevel Siding, ½x6 in.....	43.75	43.75
CANADIAN SPRUCE—		
No. 1 Lath, 1½".....	$7.50	$7.50
Dimensions, 2x4", 10 to 16'.....	36.50	36.50
HARDWARE FLOORING—		
Clear Quartered White Oak, 13/16x2¼".....	$150.50	$152.50
Clear Plain White Oak, 13/16x2¼".....	102.50	102.50
Clear Plain Red Oak, 13/16x2¼".....	94.00	94.00
Clear Maple, 13/16x2¼".....	101.00	102.00
(All lumber prices furnished by The Lumber Manufacturer & Dealer)		
COMMON BRICK—		
Per M. f. o. b. job.....	$19.50	$19.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, delivered.....	$2.50	$2.50
STRUCTURAL STEEL—		
Per 100 lb. at warehouse.....	$3.24	$3.24
CRUSHED STONE (cu. yd.)—		
¼ in.....	$3.25	$3.25
1½ in.....	3.15	3.15
WALL BOARD—		
Per 1,000 sq. ft. in lots under 1,000 sq. ft.....	$50.00	$50.00
Per 1,000 sq. ft. in lots 1,000 to 2,500 sq. ft.....	45.00	45.00
METAL LATH—		
2.2 lb.—26 gauge, price per 100 sq. yd. delivered..	$0.21	$0.21
2.8 lb.—24 gauge, light, price per 100 sq. yd., deliv.	0.25	0.25
3.4 lb.—24 gauge, heavy, price per 100 sq. yd. del.	0.29	0.29
(Add 5 cents per sq. yd. for galvanized.)		
LIME (Hydrate)—		
Finishing, per 50 lb. bag.....	$0.60	$0.60
Masons, per 50 lb. bag.....	0.40	0.40
SAND AND GRAVEL—		
Sand (per cubic yard).....	$2.15	$2.15
¼ in. Gravel (per cubic yard).....	3.00	3.00
1½ in. Gravel (per cubic yard).....	3.00	3.00
FACE BRICK—		
Tapestry (delivered).....	$47.00	$47.00
Harveale (delivered).....	43.00	43.00
Caledonian (delivered).....	45.00	45.00
Smooth Grey (delivered).....	46.00	46.00
Fiske Lock, f. o. b. factory.....	39.50	39.50
SHINGLES—		
Asphalt, Single (per square).....	$6.50	$6.50
Asphalt strip (per square)	7.00	7.00
STAINED WOOD SHINGLES—		
10 in. Extra Clear (per square, delivered).....	$10.75	$10.75
18 in. Eureka (per square, delivered).....	11.00	11.00
18 in. Perfection (per square, delivered).....	12.00	12.00
24 in. Royal (per square, delivered).....	12.00	12.00
VITRIFIED SEWER PIPE—		
4 in. (cents per foot).....	$0.12	$0.12
6 in. (cents per foot)	0.18	0.18
SLATE ROOFING—		
Slatington, 8x16 in. per sq. at quarry.....	$8.40	$8.40
CORNER BEADS (Galvanized)—		
Per foot	$0.04	$0.04
WALL TIES (Galvanized)—		
Per thousand	$3.75	$3.75
FLUE LINING—		
8½ x 8½ in., per foot.....	$0.34	$0.34
8½ x 13 in., per foot.....	0.45	0.45
HOLLOW TILE—		
8 x 12 x 12 in. heavy. Each, delivered.....	$0.25	$0.25
HAIR—		
Per bushel.....	$0.60	$0.60
PLASTER BOARD—		
32 x 36 x ⅜ in. Each.....	$0.26	$0.26
MAGNESITE STUCCO—		
Per ton.....	$43.00	$43.00
TILE—		
1 in. Square or Hexagon, White, per sq. ft...	0.27	$0.27
3 x 6 in. White Wall.....	0.50	0.50
8 x 8 in., Red Floor.....	0.40	0.40

CHICAGO PRICES

YELLOW PINE—		
Boards, 1 x 8, No. 1 Com.....	$40.00	$42.00
Ceiling, ⅝ x 4 B. and Btr.....	42.00	42.00
Dimension No. 1, 2 x 4, 12 to 14 ft.....	31.00	32.00
Drop Siding, 1 x 6, B. and Btr.....	51.00	51.00
Finish, 1 x 4, B. and Btr.....	58.00	58.00
Flooring, B. and Btr. E. G., 1x3.....	85.00	75.00
Lath, 4 ft., No. 1.....	6.20	6.20
Timbers, Long Leaf No. 1, 10-20 ft., S4S, 6x12 to 12 x 12.....	50.00	50.00
HARDWOODS—		
Maple Flooring, 13/16 x 2¼ in. clear.....	$96.00	$96.00
Oak Flooring, ¼ x 2, Cl. P., White.....	68.00	70.00
Oak Flooring, 13/16 x 2¼, Cl. Pl., White.....	98.00	96.00
REDWOOD—		
Bevel Siding, S1S1E, 8 ft., 20 ft., ½ x 4, clear	$34.25	$34.25
Finish, S2S or S4S, 1 x 6 to 8 in., clear.....	82.50	82.50
WESTERN RED CEDAR—		
Bevel Siding, ½ x 4, clear.....	$35.00	$35.00
Shingles, extra clear, 16 in.....	4.41	4.46
COMMON BRICK—		
Per M. f. o. b. job.....	$12.00	$12.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers	$2.20	$2.20
STRUCTURAL STEEL—		
Per 100 lbs. at warehouse.....	$3.00	$3.00

ST. LOUIS PRICES

YELLOW PINE—		
Boards, No. 1 Com. 1 x 4.....	$43.00	$41.50
Dimensions, No. 1, S1S1E, Short Leaf, 2 x 4 in. 12 x 14 ft.....	32.50	32.50
Finish, S2S, B. & Btr., 1¼ & 1½x5, 10 & 12 ft..	85.00	85.00
Flooring, B. and Btr., E. G., 1 x 3.....	80.00	80.00
Flooring, B. and Btr., F. G., 1 x 3.....	59.00	59.00
Lath, 4 ft., No. 1.....	5.90	6.60
Timbers, No. 1, rough, short leaf, 6 x 12 to 12 x 12 in., 10 to 20 ft.....	44.75	44.75
CALIFORNIA REDWOOD—		
Finish, S2S, Cl., 1 x 6 in.....	$82.50	$82.50
Siding, 4 in. Bevel, 8 to 20 ft.....	34.25	34.25
8 in. Colonial.....	66.75	66.75
8 in. Bungalow.....	47.25	47.25
HARDWOODS—		
Oak Flooring, ¼x1½ & 2 in. clear, Qtr. White..	$107.00	$107.00
Maple Flooring, 13/16 x 2¼ in., clear.....	100.00	100.00
RED CEDAR—		
Siding, ½ x 6, clear.....	$42.50	$42.50
Shingles, clears, per M.....	4.46	4.56
COMMON BRICK—		
Per M. f. o. b. job.....	$18.00	$18.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers	$2.30	$2.30
STRUCTURAL STEEL—		
Per 100 lbs. at warehouse.....	$3.15	$3.15

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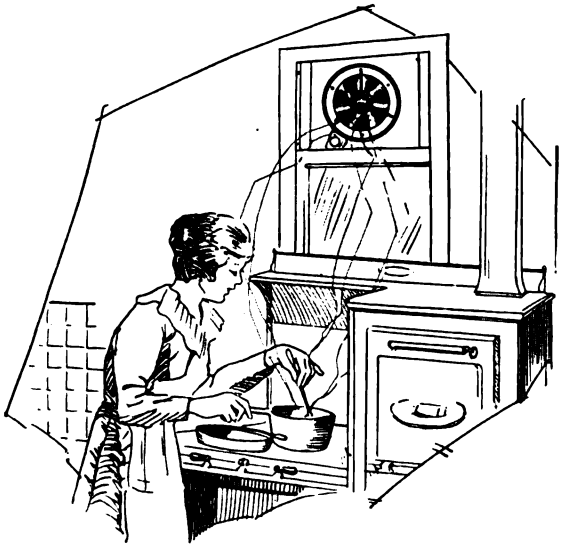
Builders—Attention!

Here's a real selling feature that costs little!

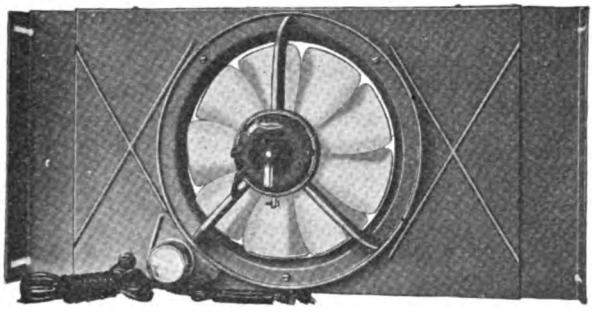
If you build homes to sell, we have a selling feature that will move them.

Builders are installing the "Buffalo Breezo" fan in kitchen windows. They tell us it helps sell their houses because its something the other fellow hasn't got.

It goes in the most important part of the house—the kitchen; it's installed by anyone in ten minutes, and it makes a real hit with women. Furthermore—the outfit is **priced right**—it costs you less than many of the less essential things you are putting in your houses.



"Buffalo Breezo" is made especially for kitchen ventilation. It has an all steel frame, with adjustable panel for fitting the window. Installed with four screws which we furnish. It can be put up or removed in a jiffy. It is absolutely guaranteed to remove all cooking odors, steam, vapor, frames or heated air from the kitchen. It keeps these disagreeable odors, and greasy smoke from the rest of the house, and saves the wife from fatigue.



In apartment houses, a "Buffalo Breezo" in every kitchen makes the whole building cooler and cleaner to live in.

The outfit is made by one of the oldest manufacturers of fans in this country and is a quality product in every way.

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Buffalo Forge Company

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The House Made More Attractive
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WALLPAPER from Lloyd

WALL PAPER plays a most important part in the home. It covers all slight imperfections in the walls, is an insulator and offers far greater decorative possibilities than any other wall covering.

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CHICAGO 494 S. Wabash Ave. NEWARK N.J. 4 Walnut St.

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Please send samples of wall papers for rooms as follows:

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Dining Room			
Bed Room			
other Rooms			

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Build and Sell Homes In the Suburbs Now

—Don't Wait for Sewers

"Out to the suburbs," is now the nation-wide cry. The city dwellers want plenty of lawn, green grass, garden, orchard, sunshine, and blue sky. Folks are tired of living where they daily toil for their bread and butter.

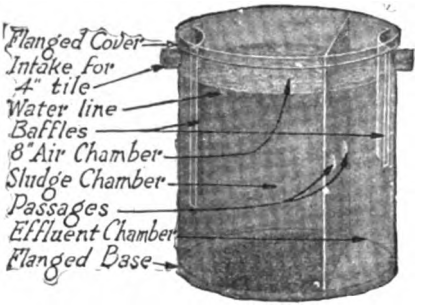
People realize that it is not necessary to live in the city nowadays just for the sake of city comforts and conveniences. Modern homes with sanitary plumbing are now easily procured anywhere. The problem of sewage disposal is perfectly solved with the safe—modern, economical



San Equip Septic Tanks

for all unsewered districts. Don't let lack of sewers worry ***you.***

San Equip Septic Tanks follow U. S. Public Health Service design. Thousands are in use. No failures. Fully guaranteed. Easily installed.



Write for Our Free Plan Sheets

Sell San Equip Septics with the lot or use our free plan sheets to help you sell.

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San Equip Septic Tanks are rust-proofed copperoid iron tanks—correct design—water tight—unbreakable—ready to connect.

Look one over at our risk. Prompt shipment from warehouse near you.

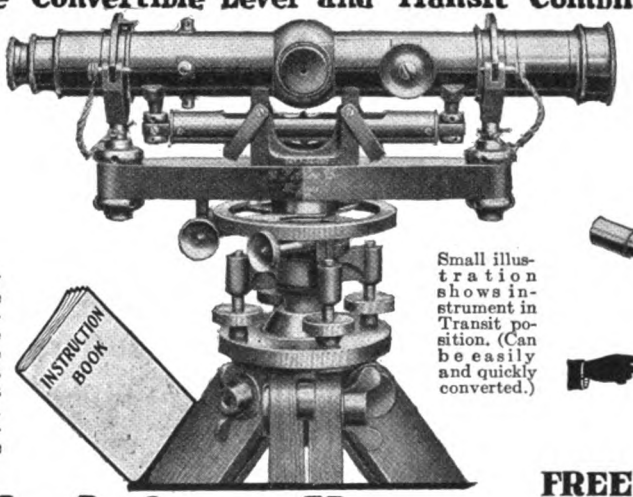
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910-916 FREE STREET, SYRACUSE, N. Y.

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$5.00 Brings it to you

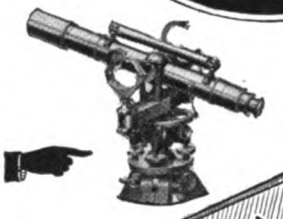
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This instrument will add immeasurably to your efficiency and put you in the big builder class—will do more to increase your business, income and prestige than any investment you ever made. The Aloe Convertible Level is the world's best—a combination of both level and transit and quickly converted to the use of either. Absolutely accurate—satisfies the requirements of the most exacting—yet so simple that anyone can use it.



Small illustration shows instrument in Transit position. (Can be easily and quickly converted.)



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No technical knowledge necessary. No previous experience needed. With our simple and complete instruction book, included free with every level, you can immediately put the instrument to work. It is a level and transit combined—takes sights either above or below the horizontal. You can use it for leveling foundations, walls, piers, streets, walks or curbings—to run straight lines for ditches or drains—boundary lines for fences or trees—surveying lots and fields—plumbing walls, shafts, trestles, posts and pillars.

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Without obligation, send me your **FREE** book, "Be A Bigger Builder". Also full particulars about the Aloe Convertible Level and details of your easy payment plan.

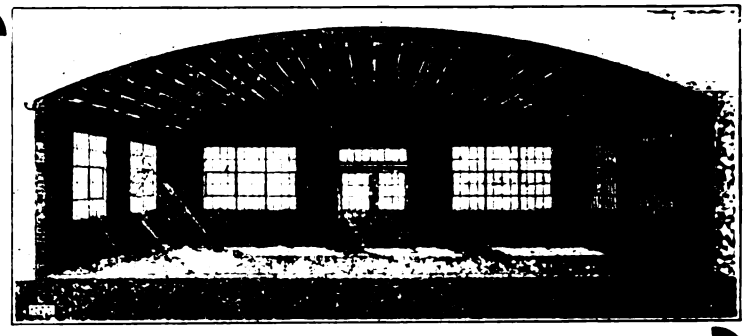
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Garages and Other Buildings

Built Quicker, Cheaper, Easier



Sectional View of Garage with Bowstring Type Truss. We furnish trusses of all other designs, for roofs draining to one side or one end, as well as for roofs draining to both sides.

From submitting our preliminary plans until the job is completed, *International Steel Service* reduces your costs and speeds up your work at every turn.

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All structural work is fitted at our shops and so arranged that erection is quicker and easier—saving time and labor.

The garage illustrated has a "Bowstring" type steel truss roof—a very popular type which decreases building costs materially. Side walls are lower, the steel trusses are lighter and less costly than any other type of equal strength, and their erection is comparatively easy.

Let us work with you if you are interested in a garage job, or any other building requiring steel work. We carry all kinds of structurals in stock, as well as a complete line of steel sash, for immediate delivery.

Write us promptly if you are in need of plans, steel, steel sash, or store fronts, and let us give you a sample of the promptness and thoroughness of *International Steel Service.*

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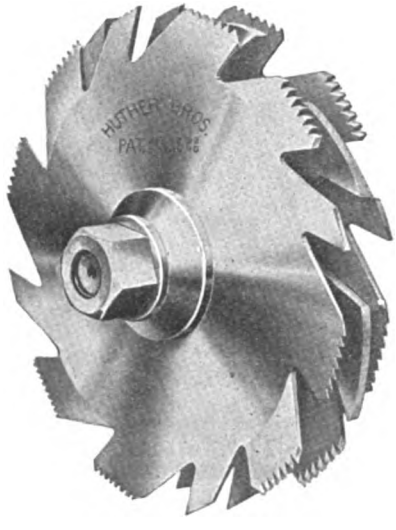
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There's more profit in a HUTHER SAW



A Huther Dado Head means bigger profits for you as it makes the most intricate cutting and grooving simple. It consists of two outside cutters and enough inside cutters to perform the desired cut. Simple to adjust.

Send for one on approval. It may be returned at our expense if unsatisfactory.

Huther Bros. Saw Mfg. Co.

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Kernerator-equipped home of Mr. S. P. Crosby, 104 Mississippi River Blvd., St. Paul, Minn. Architect, Peter Linhoff, St. Paul.



Instant Waste Disposal

—time tried and proved

IN such excellent homes as this one which Architect Linhoff has created for S. P. Crosby of St. Paul, the Kernerator is the accepted means of garbage and waste disposal. For this great convenience removes for all time the most distasteful task of housework—and the moderate first cost is the *only* expense, since it—

Costs Nothing to Operate
No Fuel Required

The waste itself is all the fuel required. As shown, the Kernerator consists of a brick incinerator chamber, built in when building is being erected, with handy hopper door opening into the flue in or near the kitchen. *All* waste—garbage, sweepings, tin cans, bottles, broken china, rubbish of all sorts—when dropped through the hopper door, falls to the combustion chamber. Here an occasional lighting burns everything but metallic objects and the like. These are sterilized by the flame and later removed with the ashes.



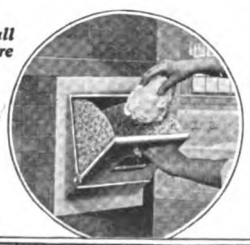
For full details see Sweet's, pages 2536-37 (1924) or write

KERNER INCINERATOR CO.
1027 Chestnut St. Milwaukee, Wis.

The Kernerator must be built in at the base of the regular chimney when building is being erected—it can rarely be installed later.

KERNERATOR
Built-in-the-Chimney
Reg. U. S. Patent Office.

Drop all waste here



—then FORGET it!



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THE ratings of Thatcher Steam and Hot Water Boilers were first established on a most conservative basis. Since that time, they have never been "boosted" in the slightest. This means that Thatcher Boilers will heat buildings evenly to 70 degrees in zero weather, with ample reserve capacity for still colder temperature.

There is no need to force Thatcher Boilers, even on the bitterest days. They are easily regulated by a butterfly door in the ash pit and a sensitive diaphragm attached to a large damper in the smoke hood. This control system removes the necessity for forcing, saves much coal, and gives each room its proper proportion of heat.

It will pay you to get all the facts on Thatcher Boiler Ratings. The coupon below will bring you the new Thatcher Boiler Catalog which contains full information. Send it in today.

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F-3 Wolverine Wheelbarrow

Built For A Specific Purpose

Practical - Sturdy - Economical

The WOLVERINE F-3 is one of the most popular all around general purpose barrows made and adapted for all high grade construction work. Used by leading contractors everywhere and built by America's oldest and largest manufacturers of wheel barrows.

These important features have been best worked out by Lansing-Company engineers; viz:

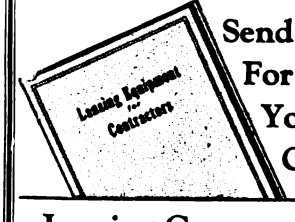
The TRAY—pressed from a single sheet of steel has a smooth uniform surface. A heavy rod is rolled within the flange on the top edge giving it rugged strength. The tray is mounted on the handles by hardwood risers.

HANDLES—are mounted to such a height as to give the most comfortable operating positions. It is well balanced. A heavy iron yoke connects the handles at the wheel end. The lumber used throughout is a high grade Michigan hard wood.

WHEELS—are extra heavy with steel bushings in the hubs and are firmly held by the Lansing "Never Slip" axle lugs.

Lansing-Company products have dominated their respective fields in low operating and maintenance cost for forty-four years.

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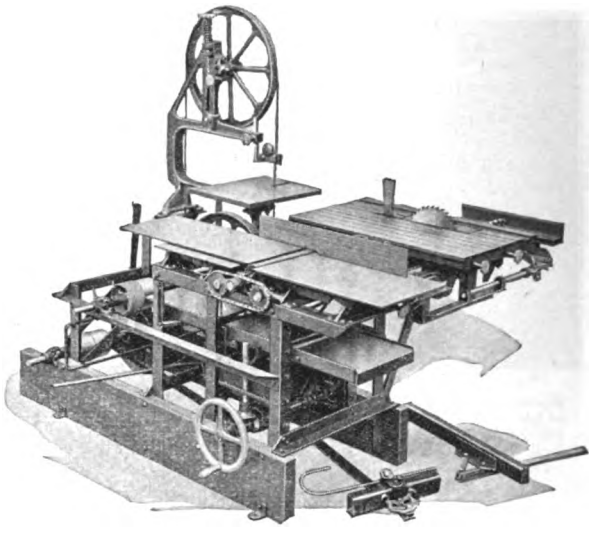
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Ask for special circulars showing contractors' barrows, a complete line for every purpose.

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Parks "Pride of the Shop"

$420.00

Will Double Your Profits

Parks Pride-of-the-Shop is a self-feed 12 inch pony planer, 12 inch jointer, 12 inch rip and cross-cut saw, 22 inch band saw, and boring machine—all in one compact unit. Write for complete specifications and catalog.



Save labor, save mill-costs, save time, save money—with this splendid Parks woodworker. Frank Drury of Jerseyville, Illinois, figures his Parks as worth $2,000.00 based on its return as an investment.

Parks Pride of the Shop saves the wages of four to six hand-carpenters. Do your own special mill-work and rush pieces without delay and for less money. Save time on house-framing. Make door and window-frames. Get out a stock of standard mill-work pieces during slack periods and be ahead of the job during the building season. With the re-saw and pony-planer you can make up material of special thickness from rough stock. You can think of hundreds of ways this husky, fast-working machine can cut costs and make money for you.

Parks machines are the most for your money. Get a Parks! Send for complete catalog describing Parks Pride of the Shop and other machines.

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Station A, Cincinnati, Ohio

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PARKS
WOODWORKING MACHINES

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House near Chicago, showing its "underclothing" of Cabot's Quilt, with furring strips over the Quilt, on which the outside finish is laid. Roof also insulated. Leon P. Stanhope, Architect, Chicago.

Underwear for Houses

Underclothing makes people warm because it prevents the heat of their bodies from escaping. You can make your house warm in the same way.

Cabot's Insulating Quilt

prevents the house heat from escaping. It insulates the whole house and saves the heat from the heater—that costly heat. It keeps the house warm on the smallest amount of coal; saves one-quarter to one-half of the coal bill. Makes the house comfortable for all time. Preserves health and saves doctor's bills. Makes the house cooler in summer. Quilt is not a mere felt or paper, but a **scientific** insulator that makes the house like a thermos bottle.

Why not insure YOUR houses against heat waste?

Sample of Quilt with full details and reference to dozens of users, sent FREE on application.

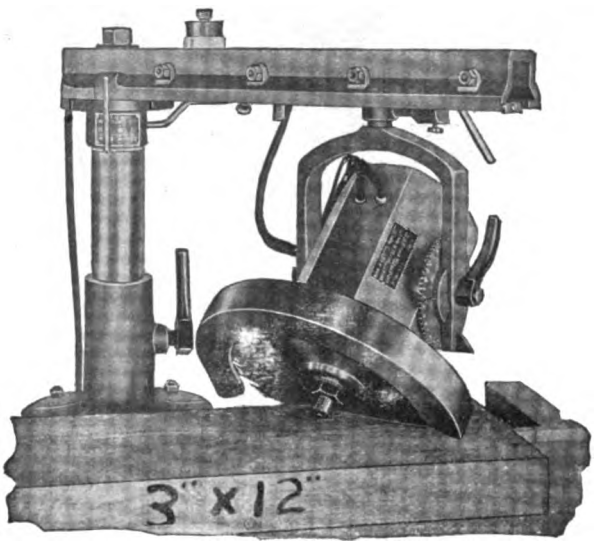
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The DE WALT WONDER WORKER



2 H. P. Mitering and Beveling in one Operation

BUILDERS and MILL-OWNERS!

It is fascinating to watch this machine work. Every cut precise and quickly made.

16 Stair Stringers routed accurately in 15 minutes. Cross cuts and rips almost smooth as planed finish.

A DE WALT WOODWORKER will do practically all the Mill class work on your job faster and as well as the mill itself.

Think of it! This DE WALT WOODWORKER will cut 20 different kinds of cuts *in one hour* and every cut as fine as you have ever seen it done. This time includes machine changes and cutting. Can you beat it?

Any carpenter or mill-hand can work it. No expert required.

Think of the saving of *time* on your jobs. *Money saved.*

READ THIS LETTER

De Walt Products Co., Feb. 5, 1925.
Leola, Pa.
Gentlemen:—

We have been using a De Walt machine in our shop for about 1 year, and really could not do without it. In fact, the longer we have it, the more uses we find for it.

We use it for curfing stair risers, cutting screen stock into proper lengths, cutting crated material, box lumber, door jambs, and trim.

A machine of this kind is indispensable in any woodworking plant.

Very truly yours,
Washington, D. C. NATIONAL WOODWORKING CO.

The DE WALT is accurately made and good for a life-time.

DE WALT PRODUCTS COMPANY

Leola, Lancaster County, Penna.

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DE WALT PRODUCTS CO.,
Leola, Penna.

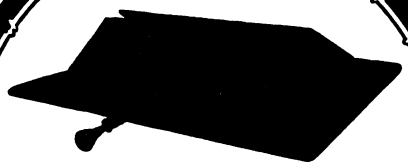
Gentlemen:
Without obligating myself, please send me catalog, full particulars and prices of the De Walt Woodworker.

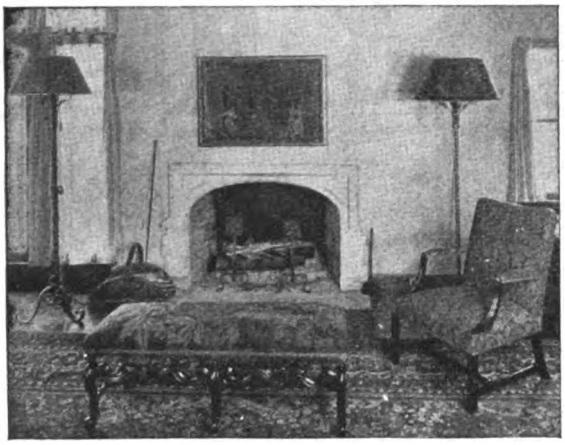
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Plenty of Heat without Smoke or Smudge!

THAT'S what your customers expect from their fireplaces. It's immaterial to them how the fireplace is built or what mechanical features are employed in its operation. It's results they are after.

You can give your customers a successful fireplace—one that will not smoke the room or smudge the fireplace front, that's easily regulated and gives off plenty of economical heat—if you build according to Donley Plans, installing a Donley Damper with its smooth metal throat.

The Donley Fireplace construction plans, fireplace designs, construction photographs and installation instructions, are all contained in our latest edition of the Donley Book of Fireplaces. Here's a mighty handy and valuable book for you to have. Send for it today! We'll also send the Donley Catalog of Building Specialties if requested.

The Donley Brothers Co.

13920 Miles Ave. **Cleveland, Ohio**

DONLEY DEVICES
Complete the Home

"The Best Producer On Our Pay Rolls"

NEWARK HOUSING CORPORATION
22-24 William Street
NEWARK, N. J.

August 10, 1925.

HUTCHINSON MANUFACTURING CO.,

Gentlemen: About May 20, 1923, we received from the factory a Hutchinson Speed Marvel which we purchased with a view to reducing labor costs in our construction work.

We build in units of ten houses. The houses we were starting when we bought the Speed Marvel were of the Bungalow type, six rooms and bath on one floor.

As soon as the Speed Marvel was hooked up it got busy at once, and upon completion of this unit we came to the conclusion it had earned its cost price.

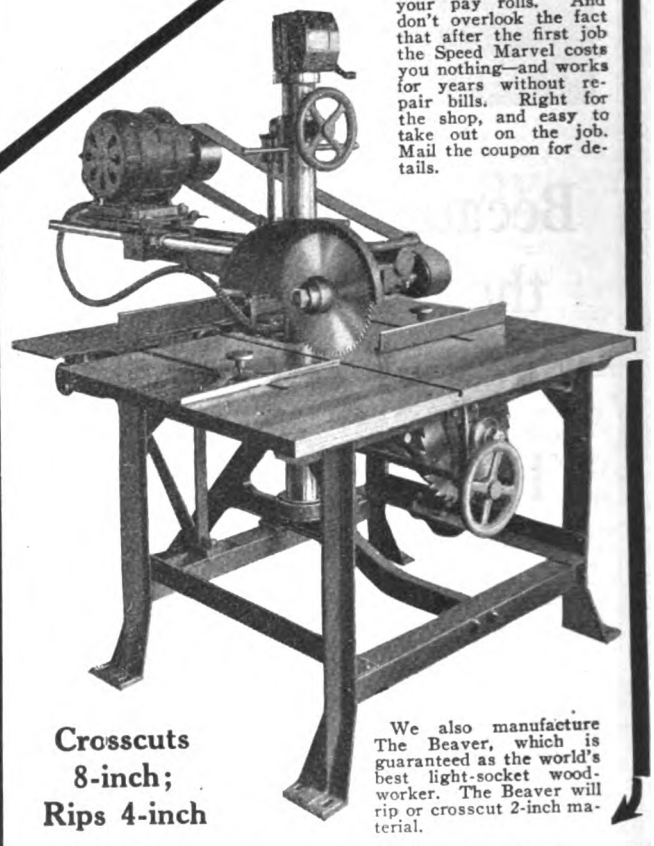
We are free to say we would not contemplate any wood construction without this machine.

The many kinds of work it does in our judgment displaces two carpenters daily and expedites the work of those on the job. It is the best producer we have on our pay rolls.

Yours very truly,
NEWARK HOUSING CORPORATION.
A. H. B. Harper, Supt.

The Speed Marvel

You, too, would say that the Speed Marvel is the best producer on your pay rolls. And don't overlook the fact that after the first job the Speed Marvel costs you nothing—and works for years without repair bills. Right for the shop, and easy to take out on the job. Mail the coupon for details.



Crosscuts 8-inch; Rips 4-inch

We also manufacture The Beaver, which is guaranteed as the world's best light-socket woodworker. The Beaver will rip or crosscut 2-inch material.

It Will Pay You to Mail This Coupon and Get Acquainted With the Speed Marvel

HUTCHINSON MFG. CO.

NORRISTOWN, PA.

To Hutchinson Mfg. Co., Norristown, Pa.

Please send full particulars on your woodworkers. I am particularly interested in the machine I have checked below.

☐ The Speed Marvel with 3 H.P. Motor.

☐ The Beaver with either ½ or 1 H.P. Motor.

Name .....

Business .....

P. O. ..... State .....

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Built for Life-Time Service



Alberene Laundry Tubs are available in a complete range of styles and sizes.

WHERE the measure of value is the capacity for giving long service and complete satisfaction, Alberene Stone Laundry Tubs are the choice alike of home owner and home builder. No artificial substitute can for a moment compete with this—Nature's own age-old stone, as durable as the hills from which it comes.

Alberene Stone Tubs positively will not crack or chip or flake—their surface is always smooth and easily kept clean. Their color is that pleasing light gray which does not show ordinary soil marks but always looks fresh and clean.

Dealers carry Alberene Stocks practically everywhere. Write for the catalog and name of your nearest dealer.

ALBERENE STONE COMPANY
153 W. 23rd STREET, NEW YORK

Boston: 37 Stillings Street Chicago: 1700 Elston Avenue
Newark Philadelphia Pittsburgh

ALBERENE STONE

QUARRIED SINCE 1882 AT SCHUYLER, VA.

YOU CAN'T DO THIS BY HAND!

Foley Files a Saw Perfectly in 5 Minutes

The Foley Automatic Saw Filer makes hand filing a thing of the past. Here's what S. J. Bottomley of Norwich, Conn., says about this wonderful machine: "I have filed saws for 40 years but the Foley Filer has me beat, both as to better work and speed. I am very highly pleased with my Foley Saw Tools, as they sure do the work fine."

Model F-3 Hand Driven
Foley Hand Drive Outfit; ideal for small contractors, builders and professional filers. For hand, band, back and meat saws. Circular saw attachment extra.



What Foley Users Say

"You certainly told me the facts about your saw tools which do the work much better than can be done by hand, and also 10 times faster."

J. N. Marshall,
102 Beaver Ave., Niles, Ohio.

"I have filed 1600 saws with your Foley Saw Filer and am busy from morning to night, owing to the reputation for doing the best work that I have made with your tools."

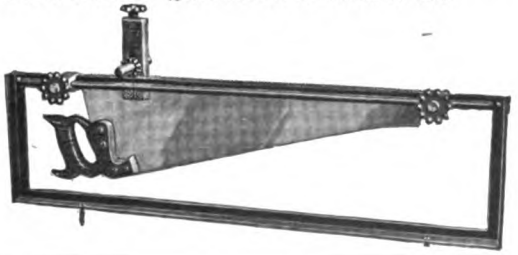
L. C. Miller,
19 Grand St., Jamaica, L. I.

Saves Money—Saws—Eyes

You simply clamp a saw in the machine, turn on the crank or let the motor turn it, and in 5 minutes you have a perfectly sharpened saw. The Foley Saw Filer works *automatically* with a speed and accuracy that cannot possibly be duplicated by hand. Teeth do not vary 1/1000th of an inch. Handles hand, band, back, meat or circular saws—even retooths saws that have been abused by poor filing. It's a money maker, a time saver, and eliminates eye strain.

FOLEY ONE-MINUTE SAW SET

One pull of the FOLEY ROTARY SAW SET the length of the saw and the teeth are set perfectly. Takes but a minute. Puts set in or takes it out.



Easy to Operate

No experience necessary. Takes just a little practice to be an expert filer. Hundreds of men are using the Foley Filer—we'll send you some names in your own state.

Send for Free Folder

There's a Foley Automatic Saw Filer that's just right for your needs and your pocketbook. Send for complete information.

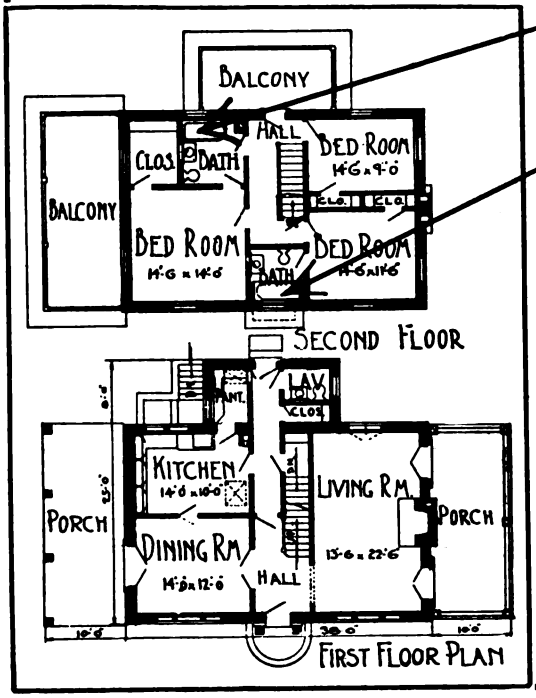
FOLEY SAW TOOL COMPANY

916 East Lake St. Minneapolis, Minn.

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THE MOST IMPORTANT ROOMS IN THE HOUSE ARE THE BATHROOMS





FROM THE LEASING AND SELLING STANDPOINT

the well equipped bathroom is a strong factor for success. Nothing in the home exerts a greater influence, for people realize it is there they find refreshment, safeguard their health.

The Kenney Needle Shower

equipped bathroom exerts the greatest influence, for the modern day demand is for *Shower* facilities, and the Kenney Body Needle Shower is the preferred type. It puts the water where it is wanted—no overhead breath-taking deluge. And, furthermore, its exclusive converging stream principle absolutely eliminates the need for curtains.

WHETHER FOR SPECULATION OR INVESTMENT THE KENNEY SHOWER IS THE SHOWER TO INSTALL.

Write for Booklet B

THE KENNEY-CUTTING PRODUCTS CORP.

507 FIFTH AVE. Dept. BA NEW YORK

Another Step Forward and Far in the Lead!

The New Improved

FAMOUS

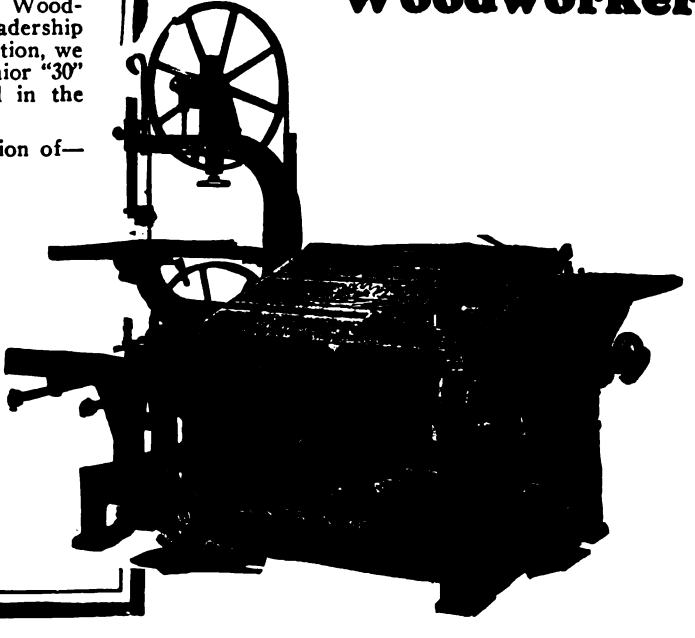
Junior "30"

Woodworker

For years the performance of Famous Universal Woodworkers has earned for them the reputation of leadership in their field. But not content with even that distinction, we have just added some new improvements to our Junior "30" Woodworker which places it still farther forward in the field of Leadership.

Chief among these new improvements is the addition of—
A Double Drive Shaft which means—

—No Short Belts!
—No Cross Belts!
—No Idlers!
—Each Unit is independently controlled, making possible the operation of any unit as desired without waste of power. Also, machine is now built with longer, wider, and heavier frame to give greater stability.

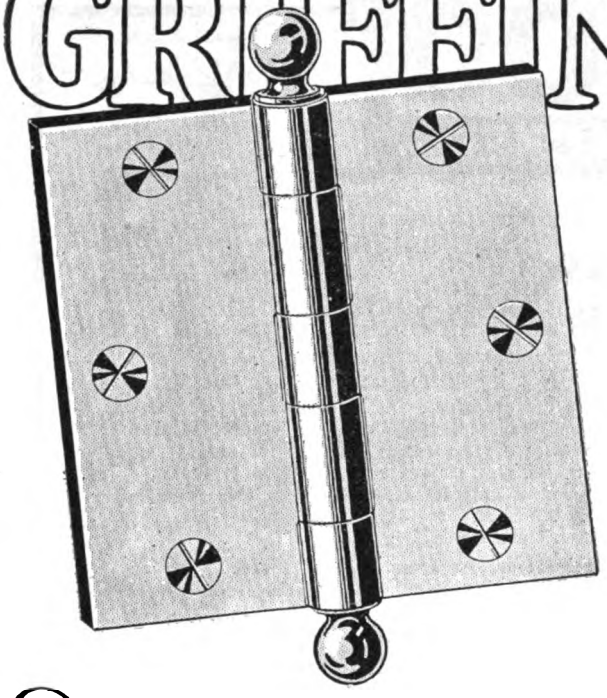


Send today for full particulars regarding this new improved machine. Don't wait another minute! It's a Money Maker for you! Get your request in the mails today! Address Dept. 309.

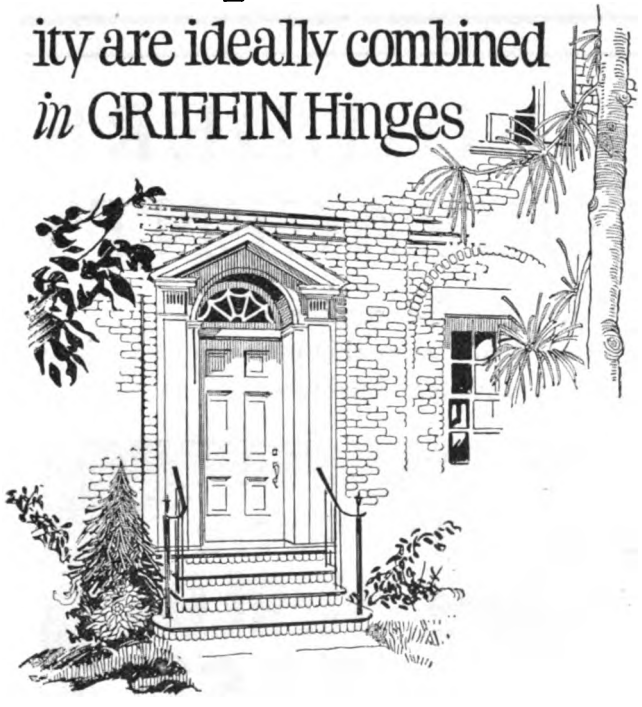
The Sidney Machine Tool Co.
Sidney, Ohio

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Utmost quality, beautiful finish *and* precise uniformity are ideally combined *in* GRIFFIN Hinges

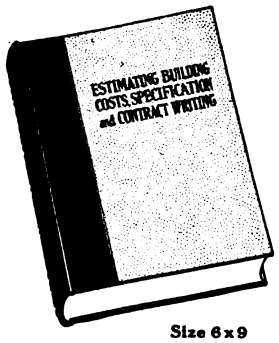


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"Estimating Building Costs, Specification and Contract Writing"



Size 6x9
Handsomely bound in green, red and gold.

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344 PAGES

ONE of the best books of its kind ever printed. Written by experts. Used in the classrooms at well-known universities and technical schools. Contains many of the lesson papers prepared and used by the International Correspondence Schools. Contents—

Specification Writing: Principles of Specification Writing; Divisions of Specification; How to Write Specifications; Subject Matter of Specifications. **Specification-writing Memoranda:** Building Erection, Construction and Equipment; Excavation and Mason-work; Terra-Cotta, Faience and Slate Work; Carpenter Work; Painting; Hardware; Structural Ironwork. **Estimating and Calculating Quantities:** Principles of Estimating; Approximate Estimating; Outline of the Work; Accurate Estimating Schedule; Excavation; Concrete Work; Masonry; Brickwork; Carpentry; Roofing; Plastering; Joinery; Structural Steel; Heating and Ventilating System; Plumbing and Gas-fitting; Painting and Papering; Glazing; Example in Estimating; Excavation; Stonework and Brickwork; Ventilating Systems; Plumbing; Carpentry; Roofing. **Contracts:** Building Contracts; Character of the Agreement; Carrying Out the Agreement; Abandonment of Contract; Fraudulent Contracts, etc.

Just tear out and mail the coupon with $3, and a copy of "Estimating Building Costs, Specification and Contract Writing" will be sent to you by return mail. Money back if not satisfied. Note the other books listed below.

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Box 9124 Scranton, Penna.

I am enclosing $....., for which please send me the books I have checked below. It is understood that I may return them in five days if I am not satisfied and you will refund my money.

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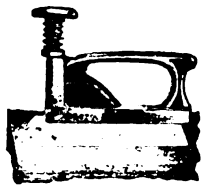


Crofoot Shade Tacker and 10M Staples, Trial Outfit, $9.75 Postpaid

J. B. CROFOOT CO. has established an enviable reputation for efficient service and fair dealing

Crofoot SCREEN TACKER

Crofoot Tackers Patented U. S. and Foreign Countries



Crofoot Tag Tacker and 10M Staples, Trial Outfit, $8.50 Postpaid

"Draw with a Claw Tack with a Whack"

That's the way the Crofoot tacker works. 77 times you can draw and 77 times you can whack. Each whack you may be sure of that staple going to the spot where directed.

The Crofoot is the simplest and best device for fastening screens. 5 times the speed of tacks and hammer; absolutely guaranteed. One loading, 77 staples. Can be reloaded in 3 seconds. All working parts made of high-grade steel, properly hardened and tempered. Does not clog or get out of order.

Genuine Crofoot Staples are packed only in sealed boxes under the Crofoot Trade Mark. 10,000 staples to the box.

Fast as you whack it, Crofoot's Tacker tacks it.



Order Now at Our Risk—$9.75

Return within 10 days if not entirely satisfactory, and we will refund purchase price, less amount for actual staples used. The price, $9.75, is complete Crofoot Screen Tacker and 10,000 staples.

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P. O. Box 783, Chicago, U. S. A.

Sole Manufacturers of Crofoot Shade Tackers, Tag Tackers, Screen Tackers and Genuine Crofoot Staples for same.

J. B. Crofoot Co.,
P. O. Box 783, Chicago, U. S. A. Check here

Gentlemen:

You may send us one Crofoot Screen Tacker and 10,000 Genuine Crofoot Staples for which I will pay the postman $9.75 plus postage. ☐

We enclose (check—money order) for $9.75 for which please send postpaid one Crofoot Screen Tacker and 10,000 Genuine Crofoot Staples. ☐

It is understood we may return same at your expense any time within ten days and you will refund the purchase price less actual amount for staples used.

Name.....

Address.....

City.....State.....U.S.A.

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Today, while you think about it, write for complete details of our attractive proposition. Don't pass this up. Hook up with a quality product and permanent business.

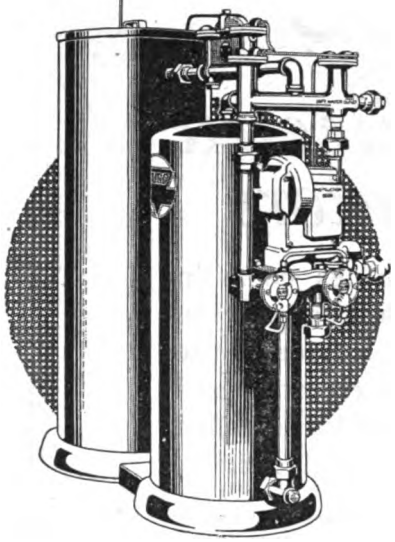
BURROWES METAL WEATHER STRIPS

The WORLD'S BEST WEATHER STRIP

BURROWES WEATHER STRIP CO.
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Softened Water
The DURO-*matic* Way



When you specify a water softener for the houses you build, you want one that is guaranteed to give satisfactory soft water service—one that is economical, with quality beyond question — one that will help greatly to make the homes you build, *preferred homes.*

DURO *Automatic* WATER SOFTENER

Here are a few of the reasons why you should specify the Duro Automatic Water Softener:

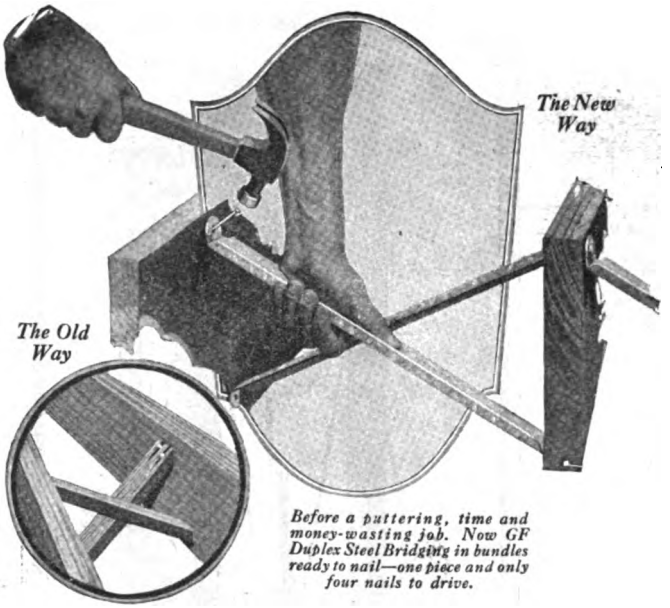
1. It is completely automatic in operation. It is necessary to replenish salt charge only a few times each year.
2. Perfectly softened water—free from discoloration—is supplied at city pressure. There are no restrictions to the flow of water.
3. Positive, dependable, economical operation. Supplies 22% to 50% more soft water per pound of salt than any other softener made.
4. Not limited to certain water pressures. It operates equally well on any pressure from 15 to 125 lbs.
5. Rust and corrosion resisting materials used throughout. All valves made of bronze. Containers either galvanized or specially enameled inside and out. Will last indefinitely.
6. Quick-acting Durolite greensand mineral is used—proved, staple, non-deteriorating, non-caustic.
7. Fully covered by iron-clad Duro guarantee.
8. Shipped completely assembled ready to operate, making installation cost low.

Write today for complete information.

THE DURO PUMP & MFG. COMPANY
309 Monument Ave. Dayton, Ohio

Largest Manufacturers of Water Systems and Water Softeners

Duro Guarantees Satisfactory Water Service



Before a puttering, time and money-wasting job. Now GF Duplex Steel Bridging in bundles ready to nail—one piece and only four nails to drive.

It has made wood bridging obsolete

GF Duplex Steel Bridging has definitely taken the place of wood. It is lighter—more rigid—made in one piece—cannot warp or split—occupies less space.

With all these advantages it costs less money installed than wood. It can be put up in one-eighth the time. A twist of the wrist and the driving of four nails and the job is done.

Builders everywhere have welcomed this great improvement. If you are not using GF Duplex Steel Bridging, write at once for sample and literature illustrating its use.

THE GENERAL FIREPROOFING BUILDING PRODUCTS
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Branches: New York · Chicago · Philadelphia · Boston · Cleveland
Los Angeles · St. Louis · Omaha · Kansas City · Minneapolis
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Export Department: 438 Broadway, New York City
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GF Duplex STEEL BRIDGING

THE GENERAL FIREPROOFING BUILDING PRODUCTS
Youngstown, Ohio

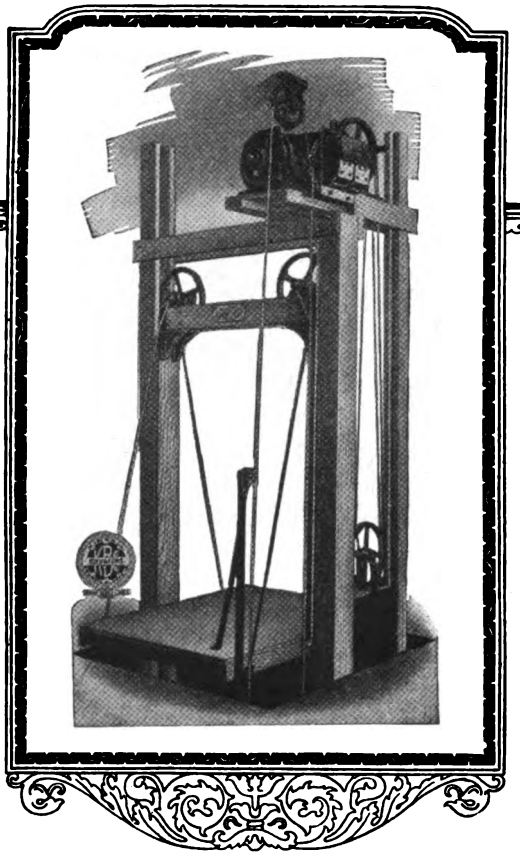
Please send me a free sample of Duplex Steel Bridging and illustrated literature.

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City ..... *State* .....

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"There is a Kimball built to suit your requirements"

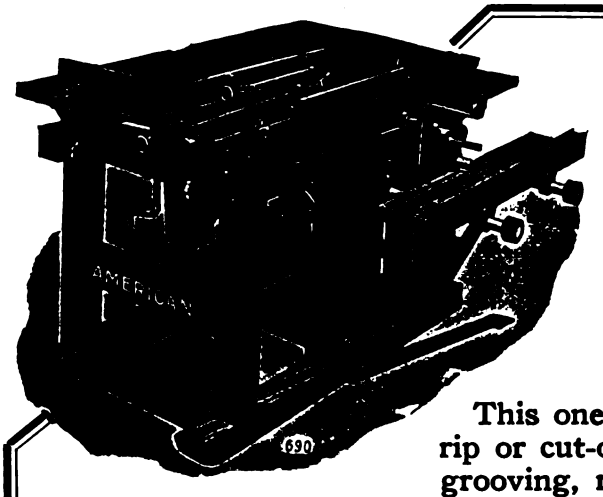
Light Electric Elevators

These machines come in three speeds and capacities. They give the service of the more expensive elevators and are easily and quickly installed wherever there is electricity.

Write for detailed information on KIMBALL'S LIGHT ELECTRIC

KIMBALL BROS. CO.
1106-22 Ninth Street
Council Bluffs, Ia.

F



Speeds up any job where lumber is used

This American Portable Variety Woodworker is today speeding construction and saving money on hundreds of jobs. Three or four men may work at it at once, each performing a different operation.

This one machine may be used as a rip or cut-off saw, as a dado, gaining, grooving, rabbeting, tenoning, or boring machine, as a jointer or planer, a matcher, molder or sander, and as a hollow chisel mortiser. A scroll or band saw attachment may also be included.

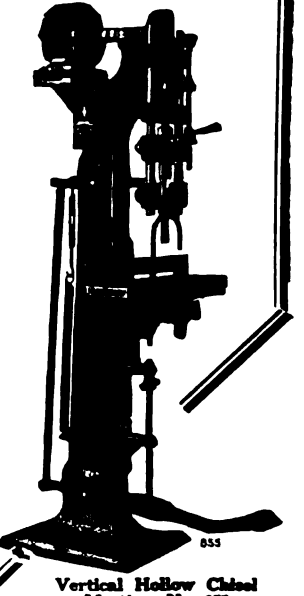
Shall we send you our bulletin No. 80, describing this and other "American" time savers?

AMERICAN SAW MILL MACHINERY CO.

61 Main Street
Hackettstown, N. J.

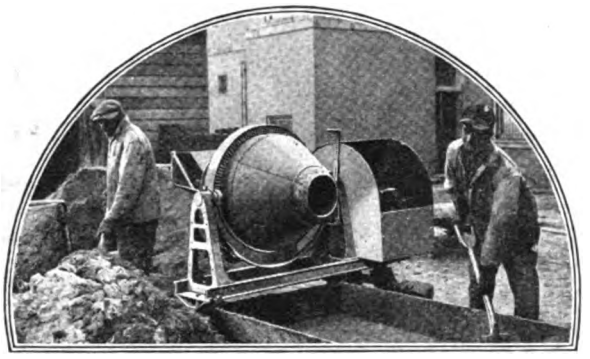
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New York City

Manufacturers of Woodworking Machinery for use on the job or in the shop



Vertical Hollow Chisel Mortiser No. 855

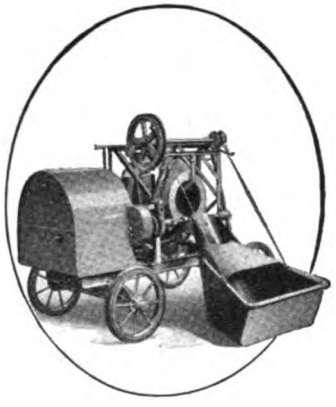
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Smith 3 1-2-S (Half Bag) Tilting Mixer used for mixing mortar—easy one-hand tilt from either side of mixer.

Dry or Wet Batches Equally Easy With a Smith

The advantages of the mixer that is easily adapted to mixes of all kinds—that can be used for mixing mortar for brick, stone or tile placement, are many. It means the elimination of extra equipment, low cost of operation, and time saved.



Light weight and high speed trailer trucks allow maximum portability.

Smiths are adaptable to any mixing conditions — with materials of extreme wetness to those of extreme dryness. And of particular value for mortar and similar mixes is the Smith 3½-S illustrated above.

This little mixer is the famous Smith tilting type that permits speedy discharging and absolute self-cleaning of the drum. It holds a batch larger than the non-tilting mixer of the same rating and because of its end-to-center mixing action (an exclusive Smith feature) an accurate, thorough mix is insured. It is quality built, to give fast, dependable service throughout a long life.

Send for our latest catalog—describing this mixer—today.

The T. L. Smith Company

1028 32nd St., Milwaukee, Wis.

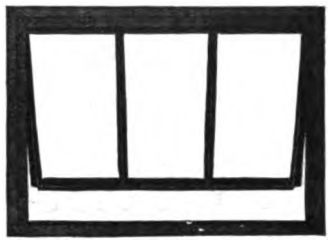
Sales Offices and Service Stations in All Principal Cities

Smith Tilting Mixers are built in the following sizes: 2 1-2, 3 1-2, 5, 7, 10, 14, 21, 28, 40, 56 and 112 cu. ft. per batch; Smith Non-Tilting Mixers: 7, 14, 21 and 28 cu. ft. per batch; Smith Paving Mixers: 21-E.

SMITH MIXERS

Sykes 8 Point Steel Basement Window

HERE are eight strong points of superiority that make Sykes Steel Basement Window easier for your workmen to install, and more satisfactory to your customer in use.



Made in 3 sizes:
3 light—2 ft. 9¾ in. x 1 ft. 3 in.
3 light 2 ft. 9¾ in. x 1 ft. 11 in.
2 light—2 ft. 7⅛ in. x 1 ft. 11 in.

1. The MATERIAL is Copper Alloy Steel.
2. The SASH is strong and heavy, with substantial outside frame and rigid corners. Will not warp, buckle or shrink in installation or use.
3. The HEAD has double contact weathering, overhanging drip and continuous anchorage.
4. The JAMB provides a positive guide for masonry, continuous anchorage, and double contact weathering.
5. The SILL has double contact weathering and projecting overhanging drip.
6. The CAM ACTING LATCH has positive automatic lock, is fool-proof and easy to operate.
7. The HINGES are welded to sash and frame, substantial and durable, with removable spring pin.
8. SPECIAL GLAZING CLIPS, simple to use, are furnished with each sash.

It will pay you to investigate Sykes Steel Windows. Use the coupon.

Sykes Metal Lath Company

Better Building Specialties

NILES, OHIO

Sykes Metal Lath Co.,
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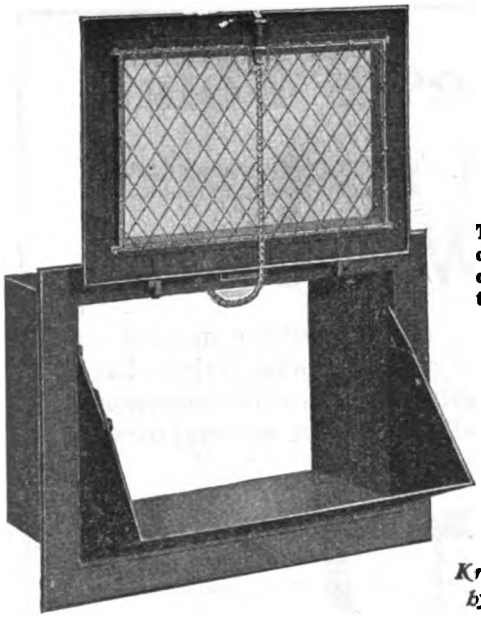
Please send full information regarding Sykes Metal Windows.

Dealer .....

Builder .....

Architect .....

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The Gabriel glass door type showing door in open position with hopper attached.

Know **"Gabriels"** *by Comparison*

This Coal Chute Pleases Both Builder and Owner

As a builder you are interested in securing materials that are easy to use, that satisfy your customer, that are substantial and make your property more saleable. There is no better way to advertise the quality of the homes you build than by the use of a Gabriel Chute.

The Gabriel Rolled Steel Coal Chute is attractive in appearance, is wind and weather proof and is guaranteed to be unbreakable. It has the special chain release which permits automatic opening of the door without descent to the basement—a feature that immediately appeals to the housewife.

Full details will be sent on return of the coupon.

THE GABRIEL STEEL COMPANY
BELLEVUE AVE. *DETROIT, MICH.*

GABRIEL
ROLLED STEEL
COAL CHUTE

GABRIEL STEEL COMPANY,
Bellevue Ave., Detroit, Mich.

Send me full details and prices on Gabriel Rolled Steel Coal Chutes.

NAME .....

ADDRESS ..... B. A. 9-25

A·B·C WEATHERSTRIPS

Endorsed by Builders, Architects and Owners Everywhere

Apartments, dwellings, lofts and office buildings, everywhere are now protected by A. B. C. Weatherstrips—the most efficient of all weatherstripping. Easily installed in remarkably short time. One building operation had 15,000 windows A. B. C. Weatherstripped in five weeks. Just as easy to install in old buildings—no grooving or removing of sash required.

All Bronze Construction
No Dust—No Sticking—No Rattling
No Draft
Quickly and Easily Installed

A. B. C. Weatherstrips are a proven success. Made of Spring Bronze, they follow all expansion, shrinkage or warp of sash. Always snug against the sash without the slightest possibility of sticking the window. They are real time, labor and expense savers.

Write, phone or wire for estimates.

Wonderful Opportunity

for Dealers and Distributors

Your territory may still be open

You can be assured of a satisfied clientele by adopting our methods. Write for all the information. A few territories still open.

HOFFBAUER COMPANY, Inc.
Manufacturers—Distributors—Installers
101 Park Avenue **New York City**

ALL BRONZE CONSTRUCTION
ALWAYS BRINGS COMFORT

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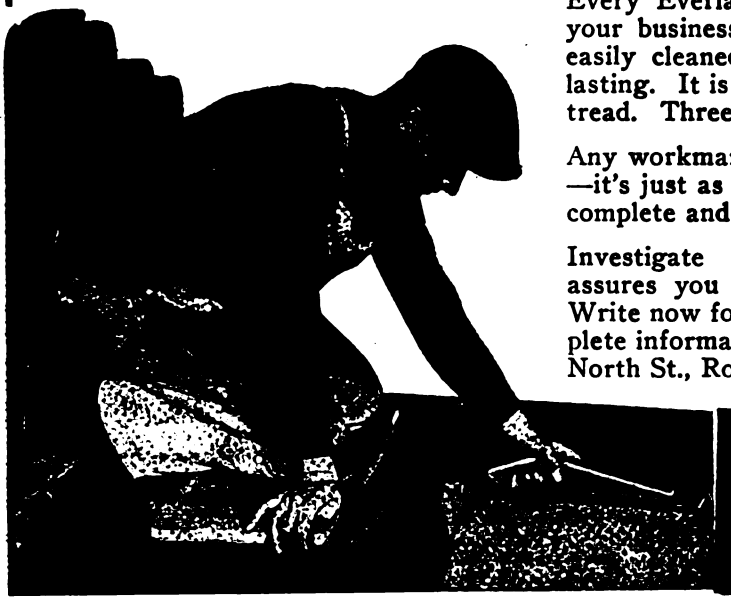
Laying Everlasbestos Brings Regular Profits

Many Buyers—
Steady Income

Your profit from laying Everlasbestos is sure to be big this year, and every year, because there are so many buyers of this flooring—stores—offices—churches—hospitals—schools—theatres—public buildings—apartments and homes for their kitchens, bathrooms, sun porches—factories for their wash rooms, restaurants.

Just as Good Laid
Over Old Floors

Everlasbestos is every bit as durable and good looking laid over old floors as installed in new buildings. There is no limit to your opportunities for permanent, ever-growing, most profitable business with Everlasbestos.



Every Everlasbestos customer is a booster for you and your business, because this flooring is smooth, seamless, easily cleaned, sanitary, handsome and practically everlasting. It is tough, fibrous, quiet, resilient and easy to the tread. Three attractive colors—red, buff and gray.

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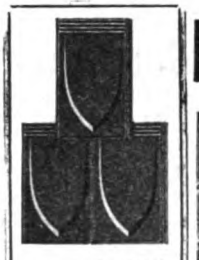


Fig. 157
Note the construction of patent interlocking Device used on Edwards Metal Shingles and Spanish Tile.



Fig. 867
Metal Spanish Tile for main part of roof.

Edwards "Queen Anne" Metal Shingles



Residence, Senator Geo. S. Nixon, Reno, Nevada. Edwards Metal Spanish Tile used on this building.

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Metal Spanish Tile



It is wonderful what a remarkable transformation takes place when an "Edwards" Metal roof is properly applied to a house—all of the charm of the old Spanish Terra Cotta Roofing Tile is preserved, even to the color.

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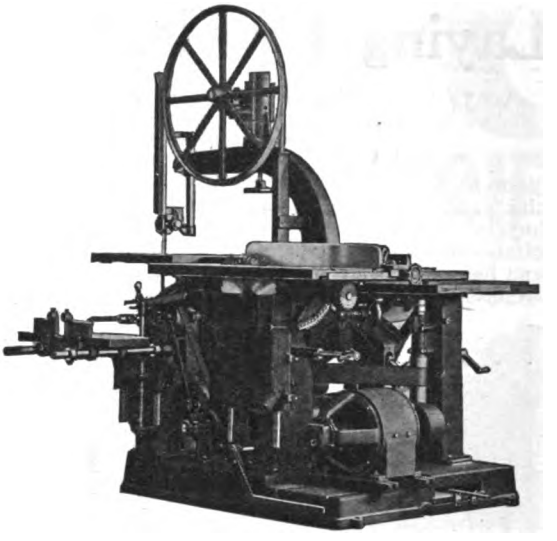
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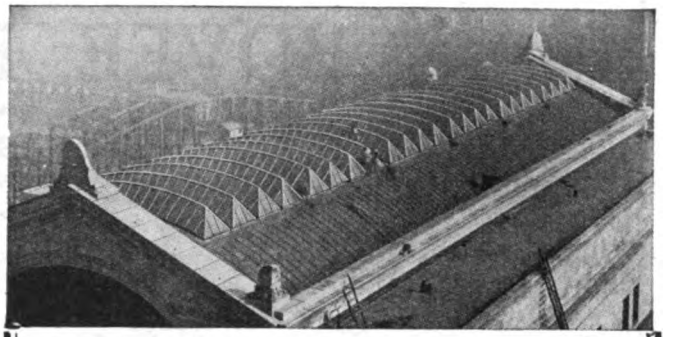
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METAL WEATHERSTRIP

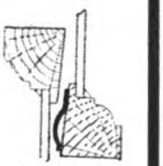


STYLE A
Used on sides, upper sash, top and bottom of window.

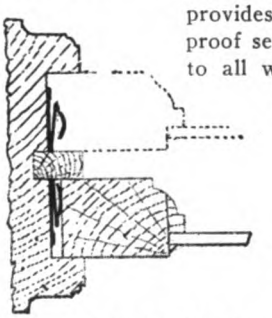
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Used on meeting rail of windows.



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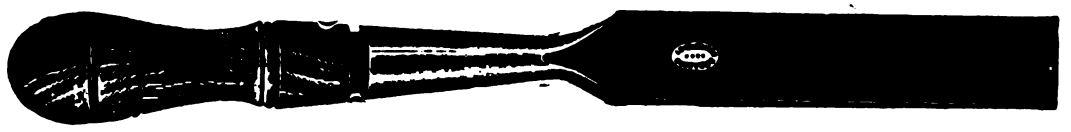
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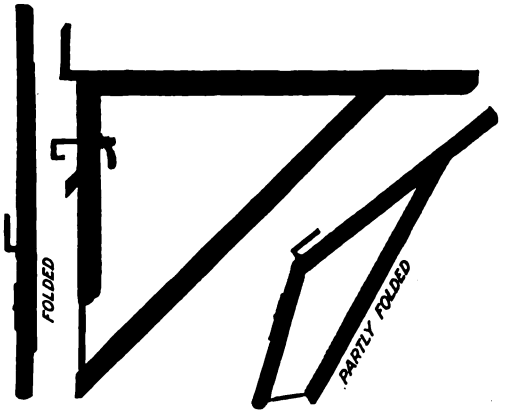
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"GLOBE" Ventilators are built to fit the particular requirements of ANY job—

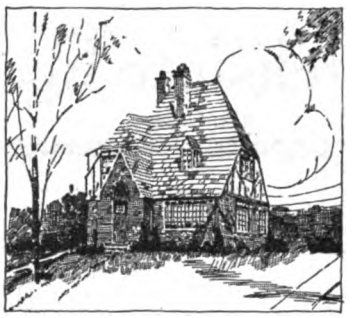
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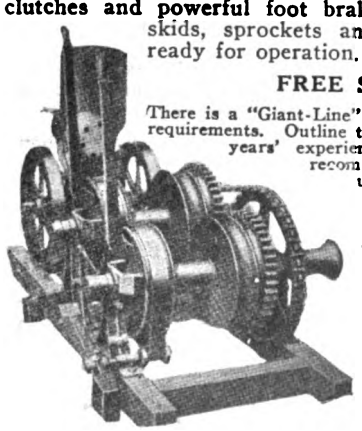
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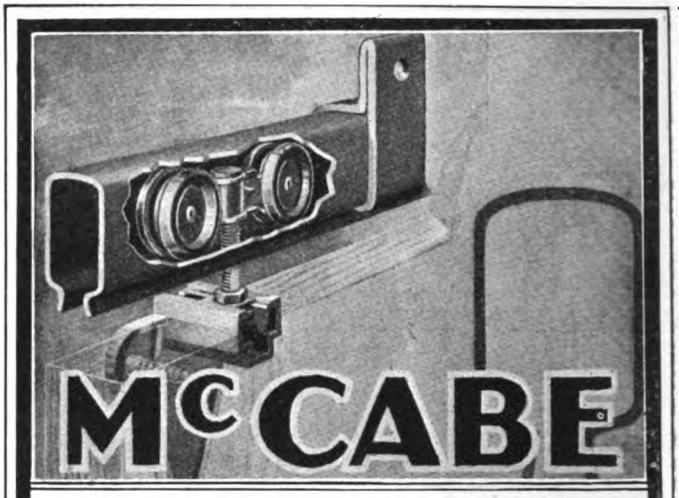
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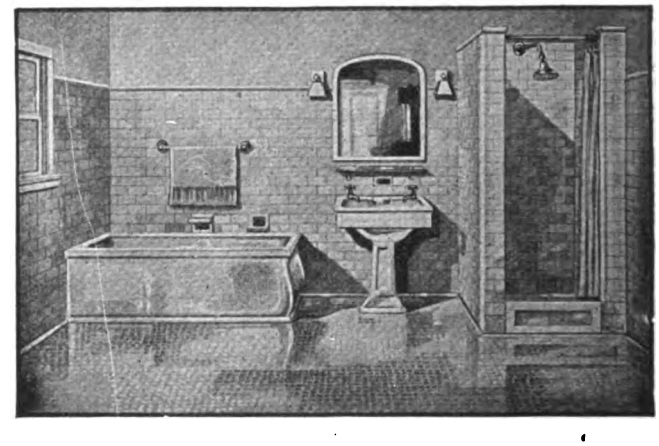
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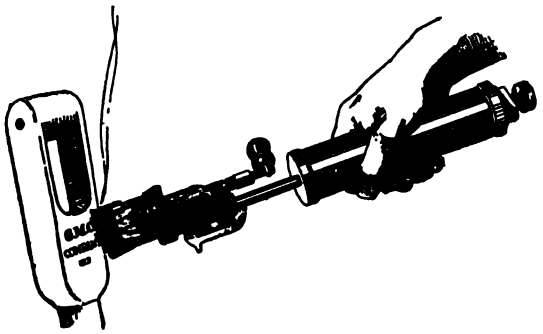
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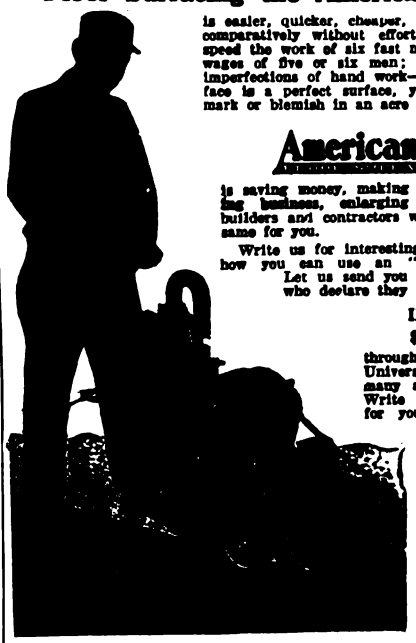
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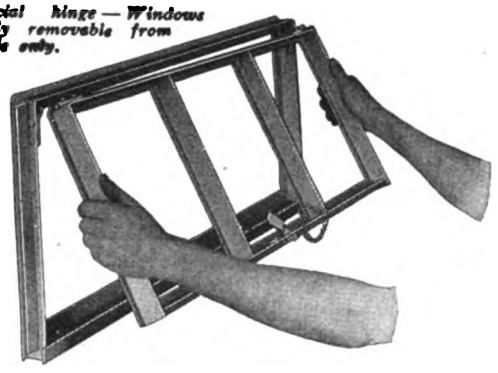
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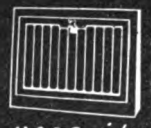


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Ordinary Register



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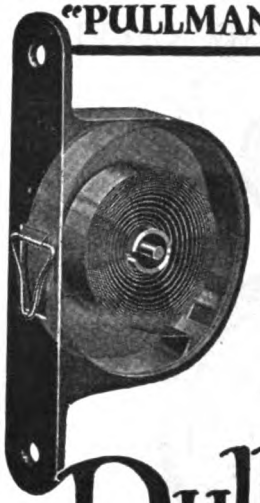
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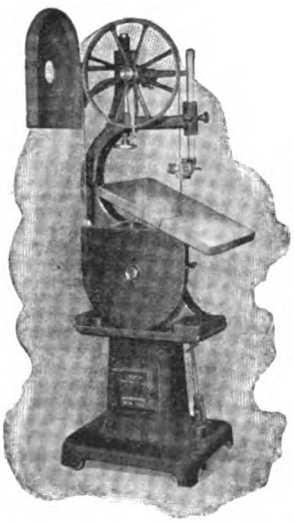
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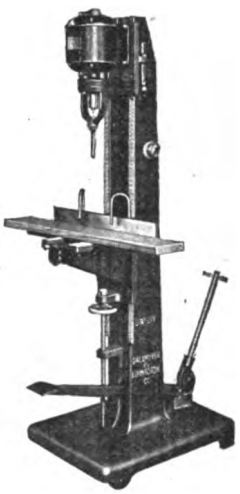
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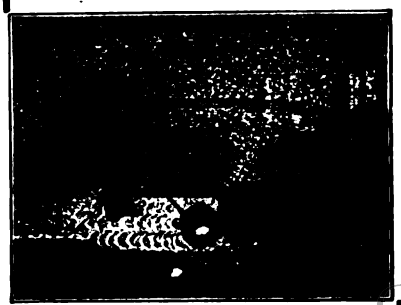


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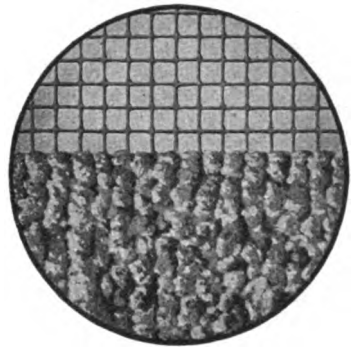


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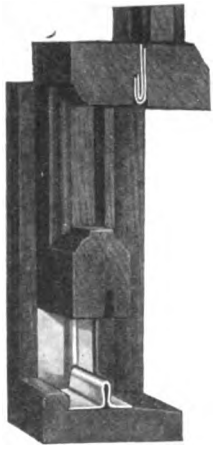
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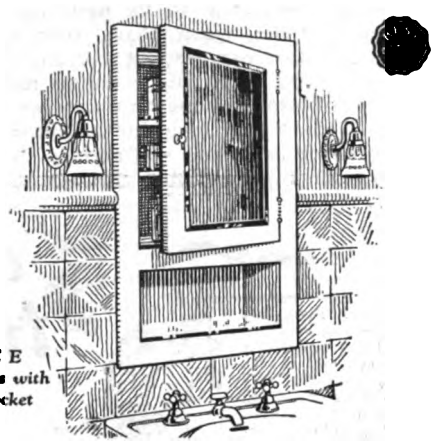
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Snow-White Steel



STYLE E to recess with open pocket below.

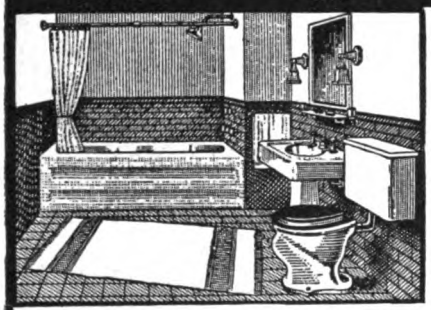
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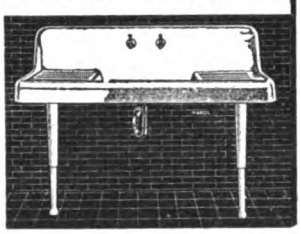
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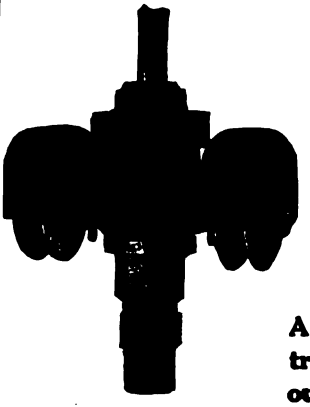


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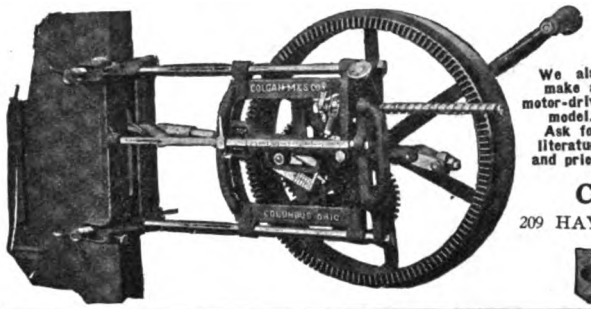
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Cuts a Perfect Mortise in a Minute or Two



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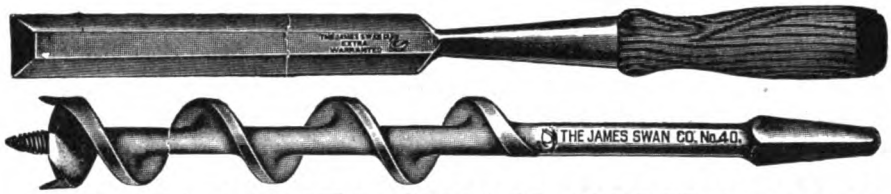
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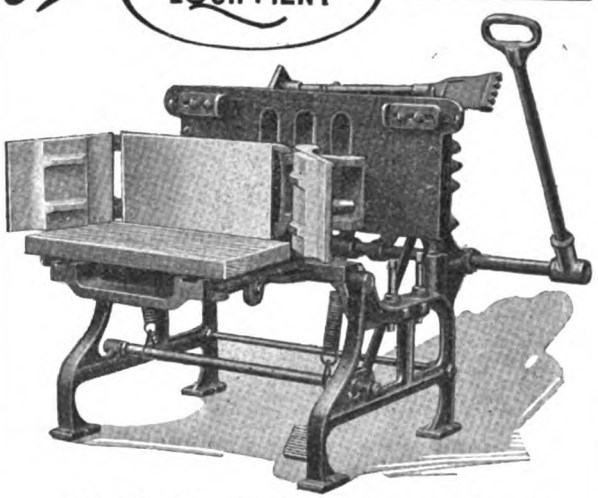
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"SIMPLEX" Levels

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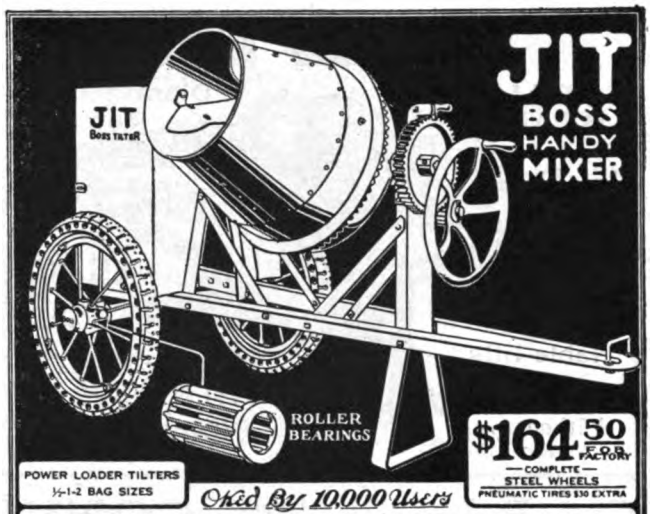
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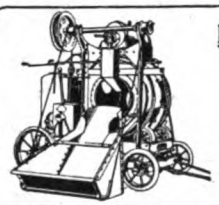
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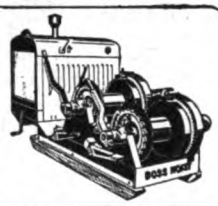
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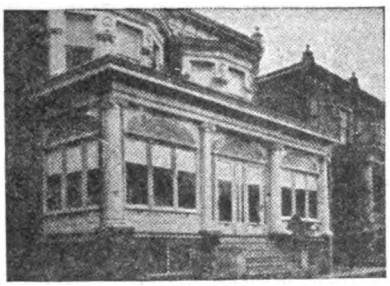


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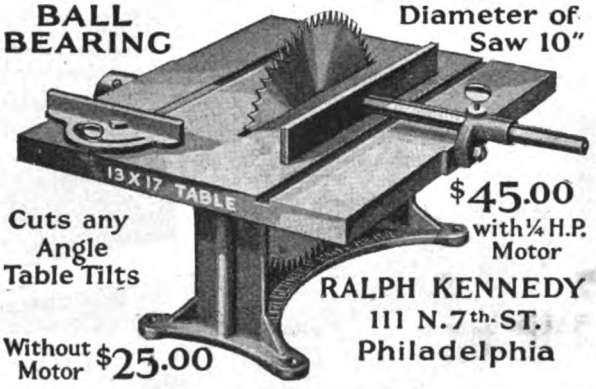
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Cuts any Angle Table Tilts

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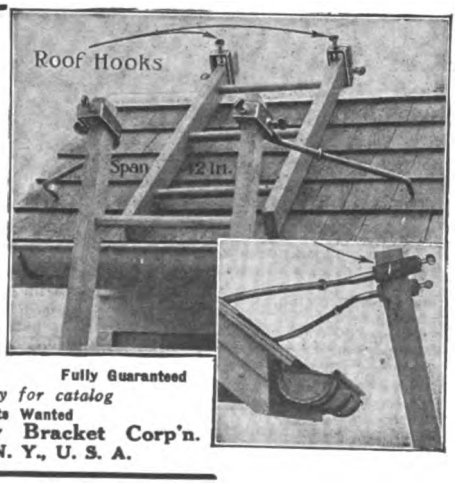
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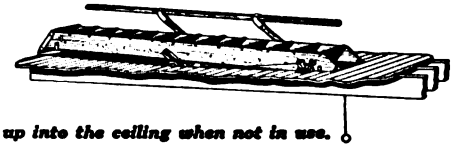
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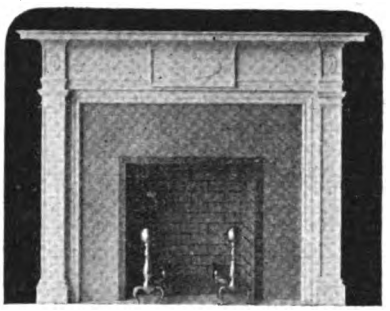
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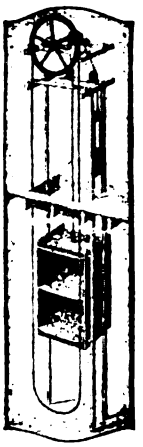
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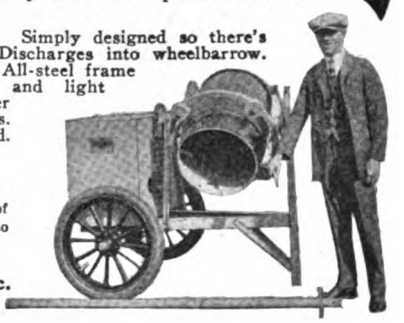
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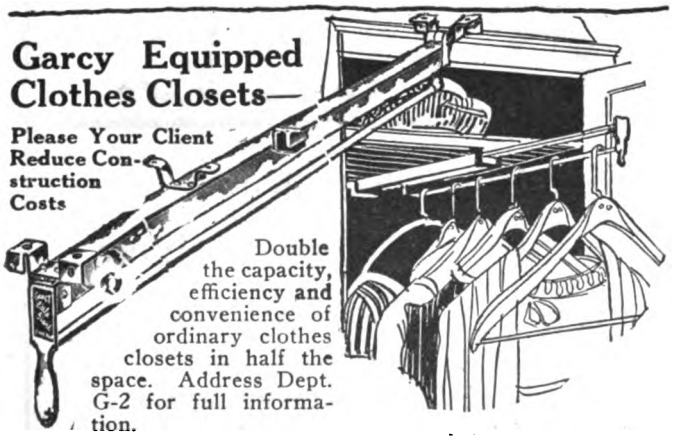
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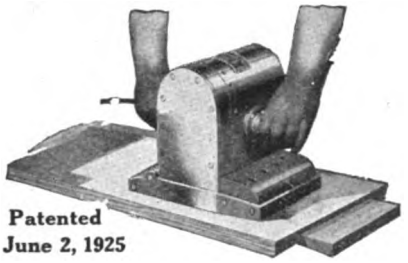
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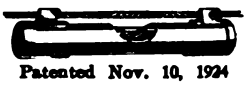
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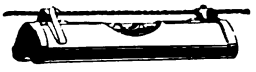
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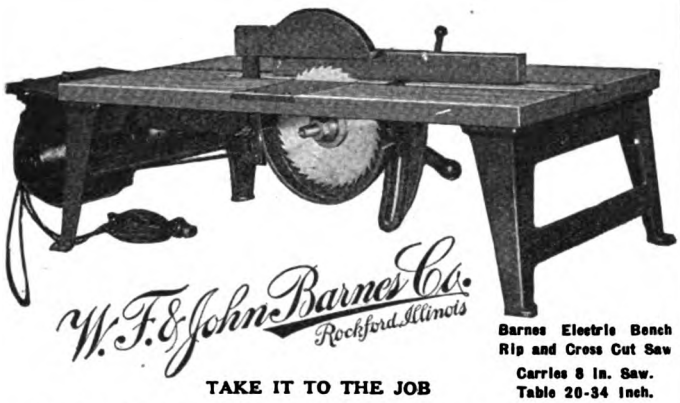


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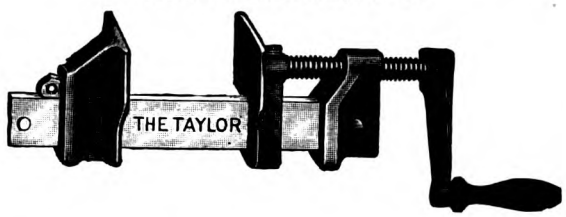
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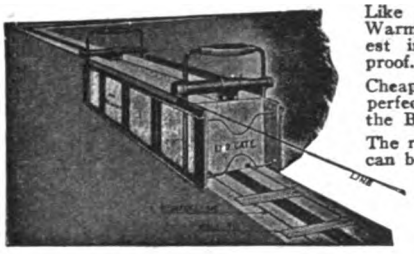
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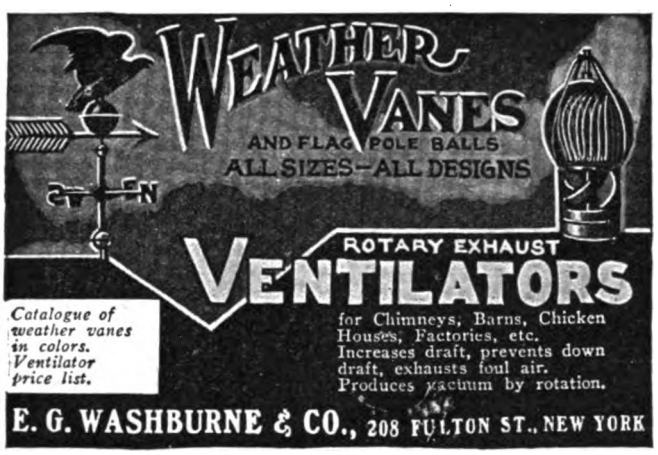
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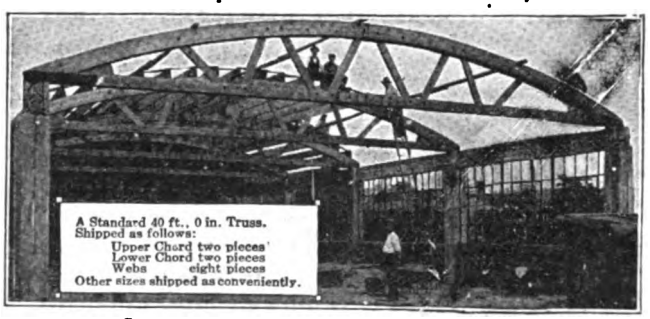
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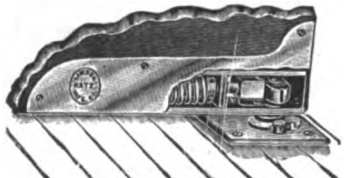


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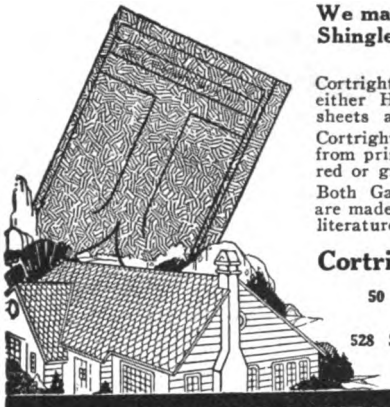
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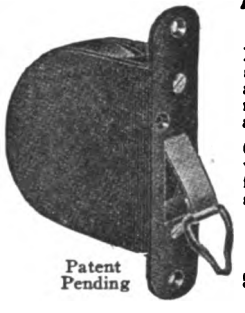
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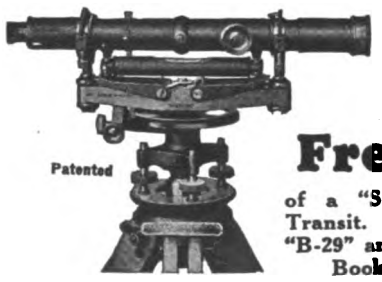
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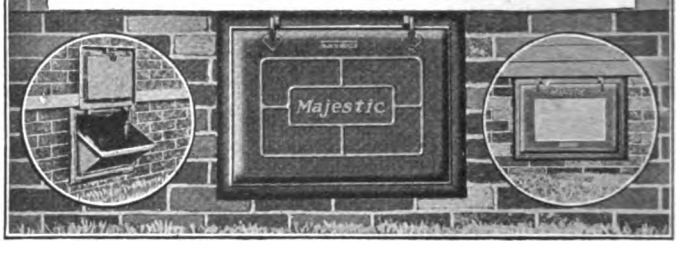
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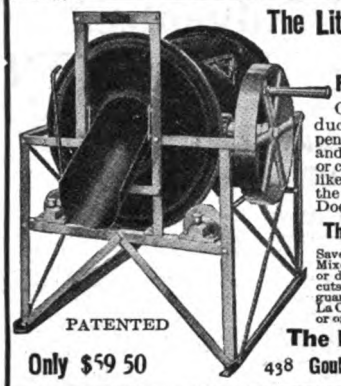


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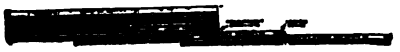
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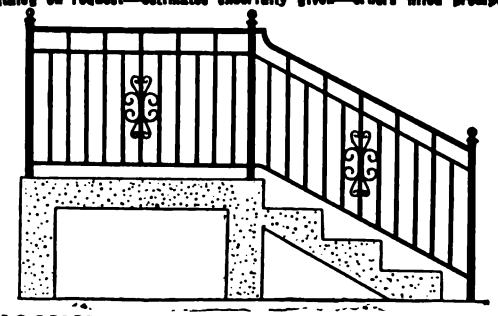
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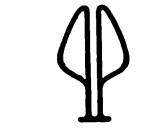
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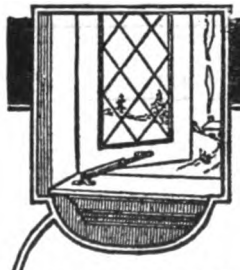
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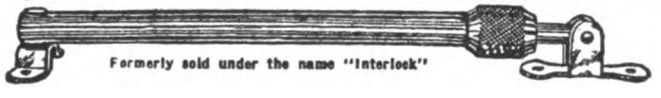
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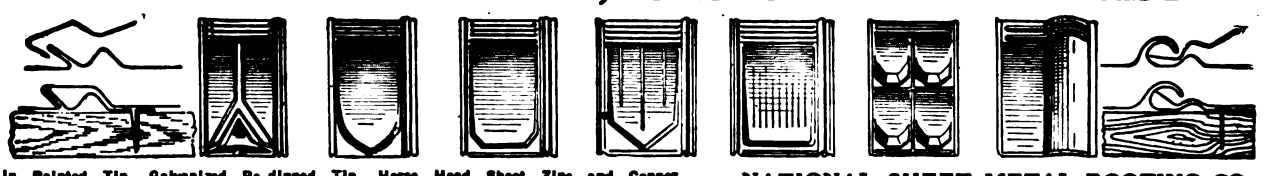
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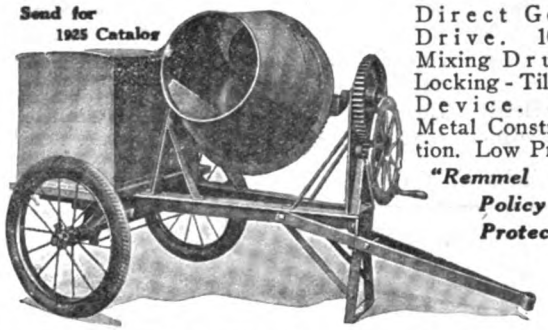
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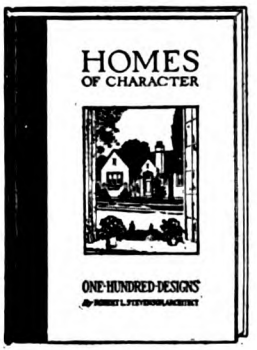
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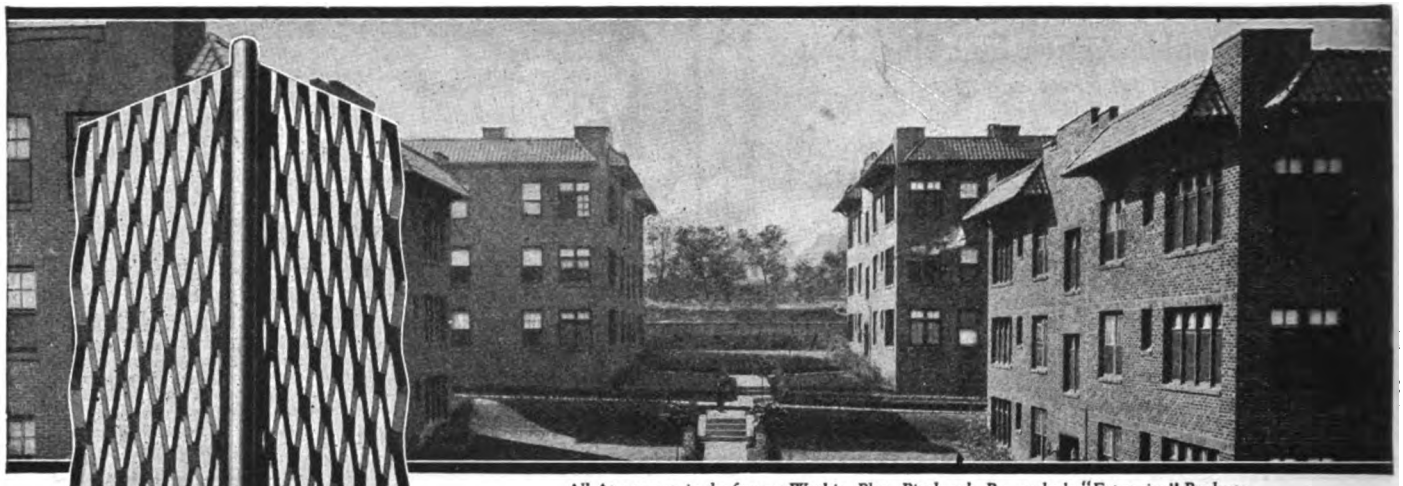
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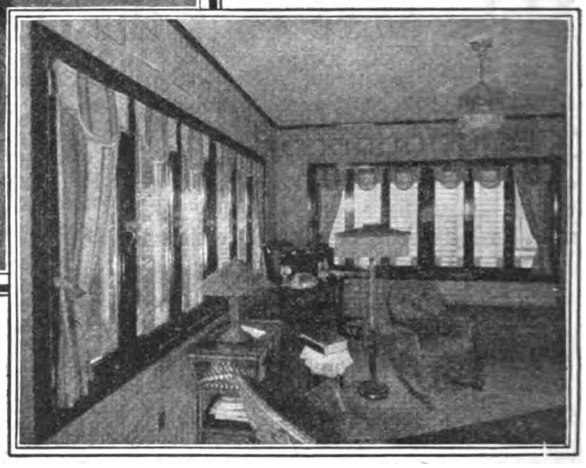
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"Quality leaves its imprint"

Health Hinges on Windows

Perfect Control of Perfect Ventilation

Flood the home with sunshine and fresh air—the good fairies of health. AiR-Way Multifold Window Hardware is the perfect answer to the doctors' urge for lots of air and light. Equipped with AiR-Way, windows slide and fold inside—no interference with screens or drapes. When open, the full width and depth of the window frame is unobstructed; closed, the windows are weather and rattle-proof. Can be opened at any point for ventilation. Bedrooms are sun-parlors by day, sleeping porches by night. Breezy in summer, snug and cozy in winter.

At small expense out-of-date methods of hanging windows can be replaced by AiR-Way.

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"A Hanger for any Door that Slides."

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A Roof That Sells the House

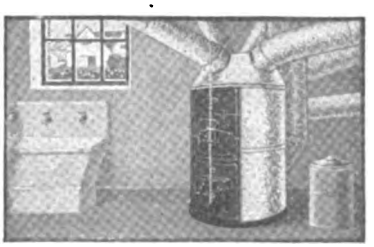
Roofs with delightful contrasts of light and shadow can now be secured at moderate cost

MANY builders are finding in sheet steel tile a new means of achieving the unusual and beautiful in exterior treatment. The deadly monotone of drab, uninteresting surface is absent. Bright sunlight is broken by delightful nuances of curve and shadow. There is an irresistible appeal to make this house a "home."

Sheet steel tile appeal to the practical mind of the builder. They are light in weight and require no special sub-structure to carry them. Their form provides a dead-air space above the sheathing that protects alike against summer's heat and winter's cold. Sparks are rendered harmless by the sturdy steel surface. Even lightning can not harm building or occupants if this roof is properly grounded.

It will pay every builder to study the multitude of uses and economy of sheet steel in building construction and furnishing—walls for bathroom and kitchen, space-saving closets, durable, cleanly kitchen equipment. These and many similar uses are covered in our interesting little booklet, "THE SERVICE OF SHEET STEEL TO THE PUBLIC." A copy will be mailed on request.

A correctly installed warm air heating system not only provides ample heat for any room as required, but also supplies the air with the proper amount of moisture. The architect's work of specification has been greatly simplified by the Illinois University's research and the National Standard Installation Code.



SHEET STEEL
TRADE EXTENSION COMMITTEE
OLIVER BUILDING
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is the ideal builders' sheathing paper because it gives the highest degree of protection and yet the cost is reasonable. Builders know that they can depend on it and that the client will always be satisfied.

Hardware and building supply dealers everywhere handle BERMICO Builders' Sheathing Paper. Samples for testing gladly sent.

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PORTLAND, MAINE

The Ideal Builders Sheathing Paper



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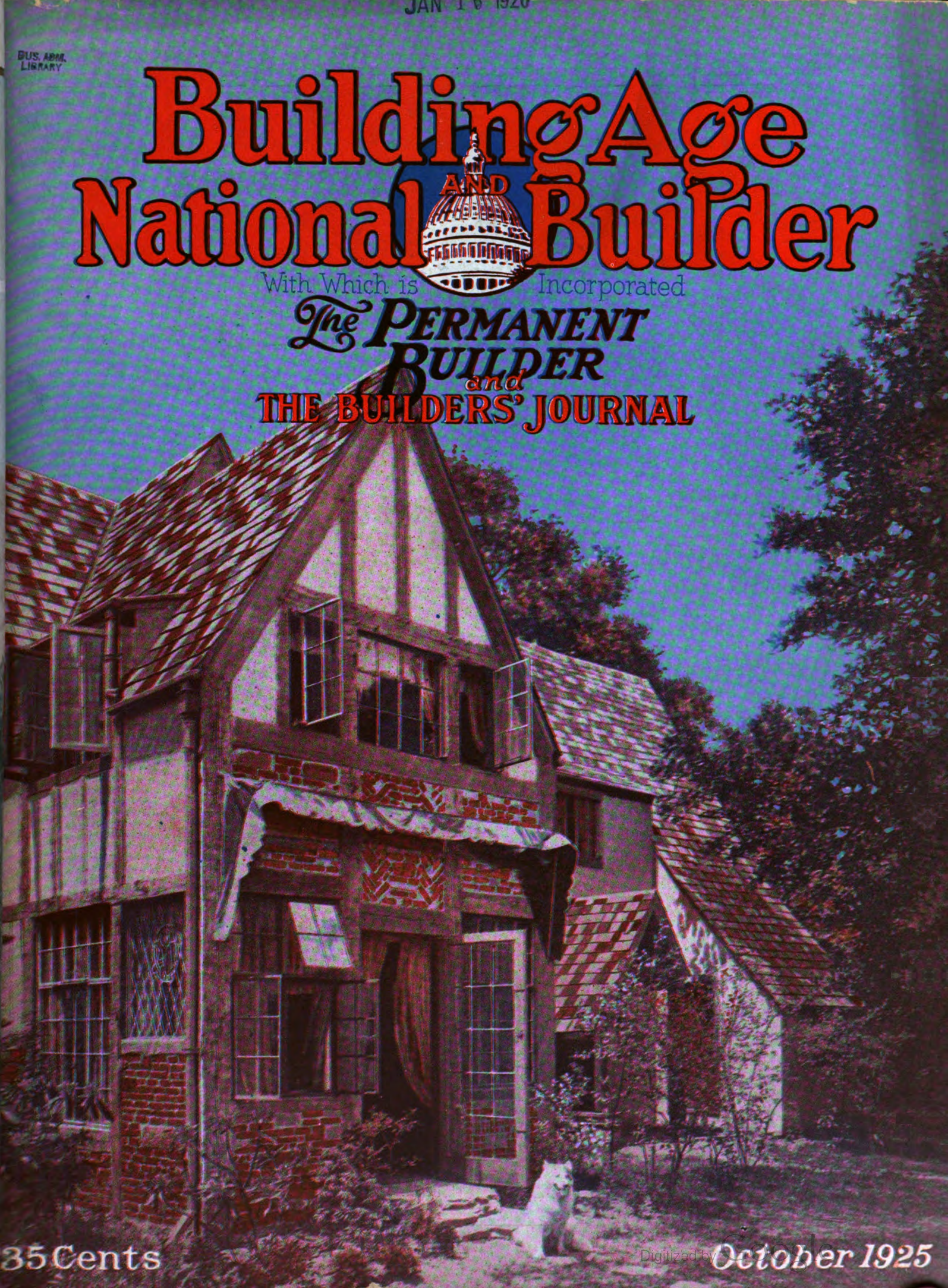
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BIRD'S ROOFS



Re-roof with NEPONSET Twin Shingles *and be proud of your home!*

YOU may well be proud of your home if it is covered with Neponset Twin Shingles. Whether you choose Lincoln Green, Venetian Red or Blue-Black, they will give your home an individuality that will make it stand out against the vivid coloring of a perfect October day.

And through every season of the year, through the driving wind, sleet and snow of winter, and under the scorching rays of next summer's sun, your Neponset Twin Shingle roof will not only continue to improve the appearance of your home but will *protect* it.

For Neponset Twin Shingles are made of long-fibred felt, saturated and impregnated, through and through, with waterproofing asphalt. Then, imbedded in the **top coating** under great pressure, is natural crushed slate, straight from the quarries—in handsome green, red, or blue-black.

And Neponset Twin Shingles are more than waterproof and weather-proof —*they are fire-safe!* They will protect your home from the very real menace of flying sparks and embers.

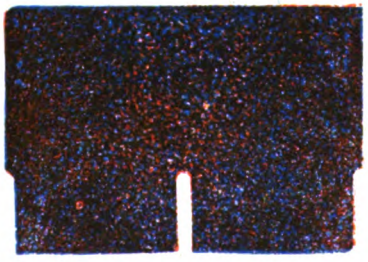
You can easily and inexpensively lay Neponset Twin Shingles right over your old shingles. Ask your carpenter or your lumber merchant. They can give you valuable information on re-roofing with Neponset Twin Shingles.

BIRD & SON, inc., East Walpole, Mass.
Established 1795

Chicago Office and Plant:
1472 West 76th Street

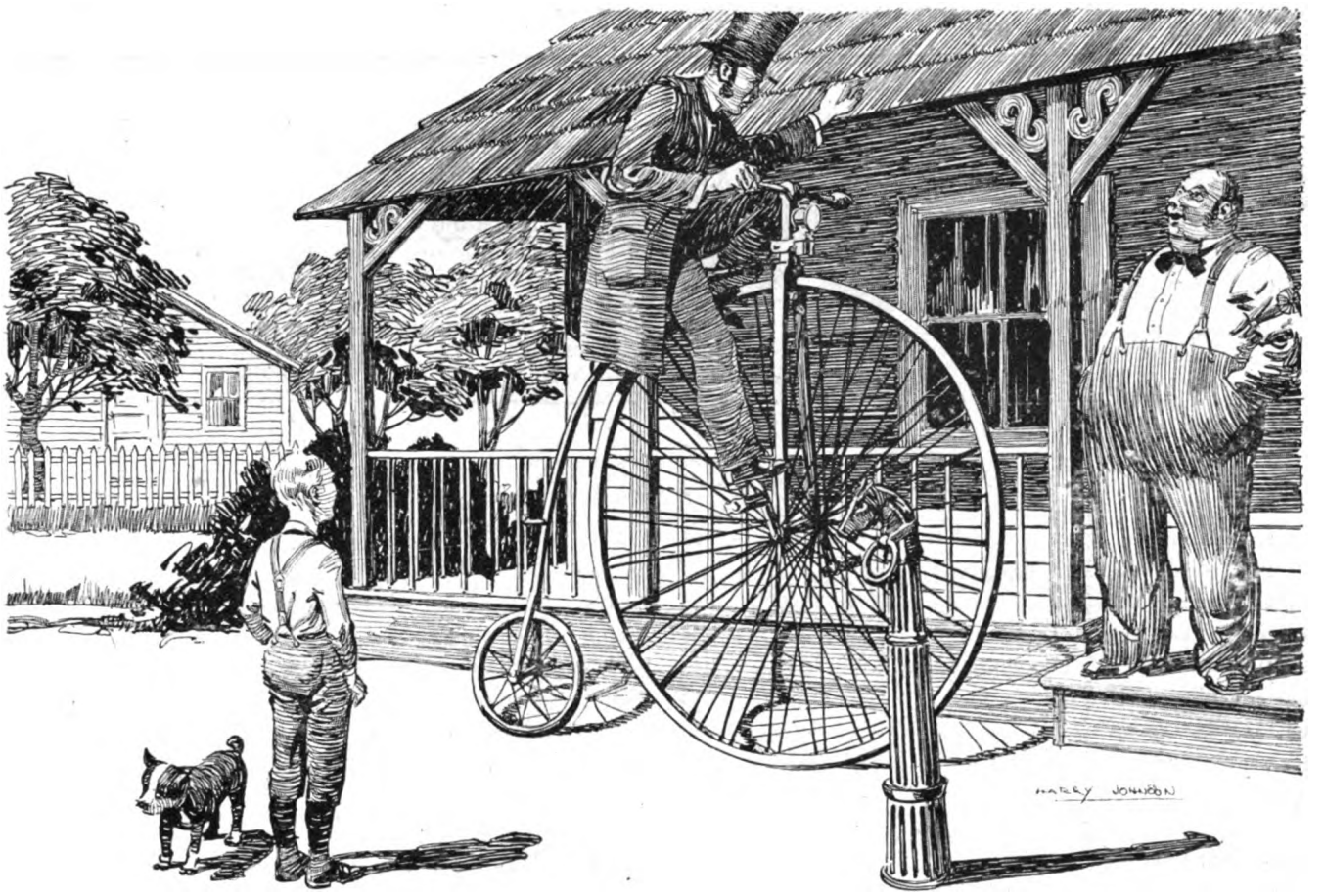
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- Bird's Four-in-one Shingles
- Bird's Shingle Design Roll Roofing



- Bird's Neponset Black Building Paper
- Bird's Wall Board
- Bird's Neponset Rugs and Floor Covering

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When higher meant fewer

A HEADER over the handle bars cured many a case of "cyclo-mania" during bicycling days in the late seventies. The more cautious, we are told, "took off" from the porch roof. The hazards of the sport led to the development of the "safety" with its solid rubber tires and soon thereafter, the Bridgeport Brass Company put on the market the first kerosene burning bicycle lamp—the "Searchlight." With the advent of pneumatic tires and the coming of the bicycle craze, the "Searchlight" attained wide popularity. To the boys and girls of '93 "Searchlight" was the lamp that made Bridgeport famous. The later improved models burned acetylene.

During this period, many notable buildings have been erected, not a few of which get their water supply through Plumrite Brass Pipe. Delivering rustless water without causing damage through leaks builds better reputations for contractor and manufacturer alike.

Reminiscences of 60 years in the Brass Business—the third in a series, available in folio form upon request.

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Ledrite Brass Rod
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Registered U. S. Patent Office

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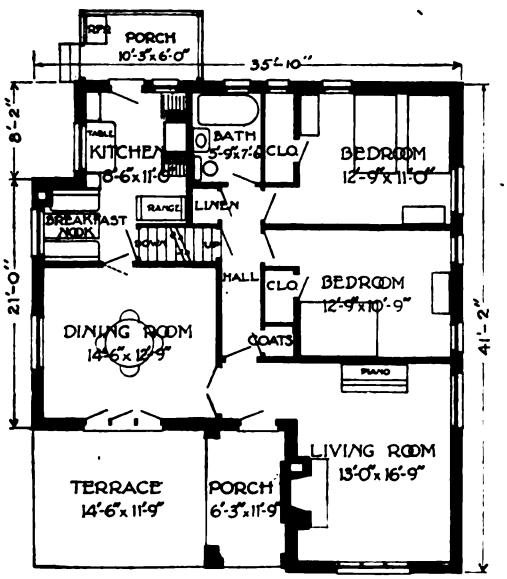
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This photograph shows our Design No. 505 as built in Boston, Massachusetts. The pen sketch is taken from our 5-Room "Face Brick Bungalow and Small House Plans" booklet. You will find that every American Face Brick Association plan "builds well."





Homes with High Resale Value

ONE of the reasons why shrewd home-builders are turning to the Face Brick house is the fact that it depreciates very slowly, and hence always has a high resale value.

They realize, too, that the Face Brick house is economical to own—painting and repairs are held down to the minimum, insurance rates and heating costs are low.

Every progressive contractor can profit by taking advantage of the growing popularity of the Face Brick house.

If you have not been building Face Brick homes, you will find all the information you need to start you in our **"Manual of Face Brick Construction."** It is a complete and practical treatise on the subject. Sent for one dollar.

If you are building Face Brick houses you will want our **"Face Brick Bungalow and Small House Plans,"** showing 104 designs grouped in separate books of 3 and 4, 5, 6, and 7 and 8-room houses. The set, one dollar; single booklets, 25 cents each.

AMERICAN FACE BRICK ASSOCIATION
1764 Peoples Life Building · Chicago, Illinois

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Your Customers Know Fiske Brick

"FISKE" has meant good brick since Civil War days. Today, in hundreds of localities you can find enduring examples of good brick work done in FISKE Brick, construction ranging all the way from modest homes to great buildings which are the talk of the nation.

If it can be built with brick it can be built better with FISKE Brick—well-known, well-advertised, well-suited to practically every type of building.

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New York Boston Watsontown, Pa.

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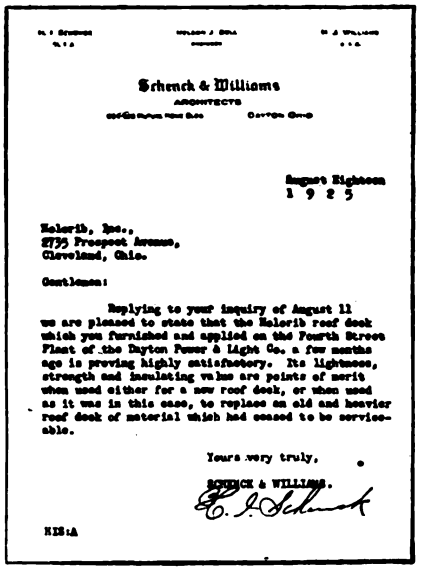
TRADE MARK

INSULATED ROOFS



Holorib Insulated Roof used for replacement, Fourth Street Plant, Dayton Power and Light Co., Dayton, Ohio. A new achievement in roof construction. The removal of the old roof, application of the Holorib deck, insulation, and waterproofing, were accomplished in record time as one continuous operation. Holorib Insulated Roofs can be applied under any weather conditions in which a man can work, freezing temperatures are not a barrier.

Little Weight and Much Insulation



Schenck & Williams
ARCHITECTS
Dayton, Ohio

August Eighteen
1925

Holorib, Inc.,
2795 Prospect Avenue,
Cleveland, Ohio.

Gentlemen:

Replying to your inquiry of August 11 we are pleased to state that the Holorib roof deck which you furnished and applied on the Fourth Street Plant of the Dayton Power & Light Co. a few months ago is proving highly satisfactory. Its lightness, strength and insulating value are points of merit when used either for a new roof deck, or when used as it was in this case, to replace an old and heavier roof deck of material which had ceased to be serviceable.

Yours very truly,

SCHENCK & WILLIAMS.

E. J. Schenck

EJS:A

Holorib Insulated Roofs bring a new principle to the roofing industry: the lightest permanent deck in existence provides ample structural strength and maximum insulation.

Viewed from every angle, roof weight is a liability. A Holorib Roof pays for itself by allowing minimum weights of structural members from foundation up. Next to waterproofing, the most important function of a roof is to provide adequate insulation. Holorib Roofs do this to the maximum, completely preventing condensation and decay, stopping fuel waste and producing even temperature conditions.

A complete Holorib unit consists of a steel supporting sheet fabricated by an exclusively controlled process, self reenforced by closed triangular ribs, each rib a complete girder beam. A Holorib deck within its own structure provides amply for expansion and contraction. This supporting member is insulated and water-proofed under Holorib Specifications.

Holorib is a highly fire resistive and permanent roof, reasonable in price and quickly laid under any condition. An ideal roof for a new building or for replacement.

Write for full information.

HOLORIB, Inc.

CLEVELAND, OHIO

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HOME OWNERSHIP
GOOD CONSTRUCTION
BETTER EQUIPMENT

Announcing

BEAUTIFUL INTERIORS
HAPPY SURROUNDINGS
IMPROVING OLD HOMES

"Own Your Home"

(Recorded U. S. Pat. Office)

BUILDING and EQUIPMENT Expositions

Sixth Annual
CHICAGO
Coliseum
March 27-April 3, 1926

Eighth Annual
NEW YORK
New Madison Square Garden
February 20-27, 1926

Good Construction Practice Featured

Extracts from the Fundamental Principles of Good Construction Practice Advocated in the Code of Ethics Governing the "Own Your Home" Exposition.

¶ "Prospective home-owners must realize the importance of having the home correctly planned. The greatest economy in building and upkeep comes from careful planning.

¶ "Demand honest construction. Whether it be *brick, hollow tile, frame, stone, stucco-on-concrete masonry, or stucco-on-metal or wood lath.*"

¶ "Do not overlook the possibilities of the substitution of shoddy for good materials."

¶ "Poor workmanship will weaken the house, increase the upkeep, and reduce its useful life to a very few years."

¶ "Failure to properly insulate the house will cause discomfort, and add to the fuel consumption."

¶ "So far as is possible, use materials which are nationally recognized as standard."

¶ "The actual value of the house, its upkeep, and the health and comfort of the family, are largely dependent on the character and quality of its heating, lighting, plumbing, and mechanical equipment and appliances."

¶ "Poor, makeshift quality in equipment and materials is the most expensive in the end."

¶ "Home builders should not attempt to economize in the construction of their homes by selecting equipment because it is cheap. True economy is in careful planning, buying good materials as cheaply as possible, and seeing that they are properly installed."

The New York and Chicago Expositions are the pioneers in the conduct of Expositions with a purpose such as is briefly outlined here.

To Manufacturers and Dealers in Building Materials and Equipment:

Here is an opportunity to teach good building methods, increase sales and prestige by visualizing your product, demonstrating its value and correct application under the most favorable conditions to ARCHITECTS, BUILDERS and prospective HOMEOWNERS at these great annual Building Expositions

Approximately three thousand Architects and Builders and a hundred thousand potential Home Owners attend each annual Exposition.

Only standard materials and equipment are accepted for exhibition, and then only on the approval of their respective national and local trade associations.

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CORNA-LATH



and now

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20th Century

LongSpan

Corrugated

Kno-Burn

Another
North Western Product—

Prevents Corner Cracks

Needed in Every Wood Lathed Building or Other Structure Wherein Metal Lath is not Used Thruout.

CONTRACTORS everywhere will welcome CORNA-LATH—the new, true-angle, "better" cornerite. Help you do a better job with less effort. Reaches you in perfect condition, ready to erect. No dents or kinks to straighten out. A time and labor-saver.

CORNA-LATH is formed from 8" strips of diamond-meshed lath, shaped to a right angle with 4" flanges.

Applied *over* ordinary lathing in all inside vertical corners, into corners where walls and ceiling intersect, and especially where masonry and stud walls join, CORNA-LATH forms a *built-in*, permanent reinforcing for the plaster. Its use tends to prevent the ugly corner cracks so frequently seen when ordinary lath is used, improves the interior appearance and adds to the fire-safety of the building.

Packed in bundles of 25 strips, 8 ft. long.

Give CORNA-LATH a trial on your next job. You will be more than pleased with it. Obtainable from all leading dealers. Circular Free.

NORTH WESTERN EXPANDED METAL CO.

1204 Old Colony Building, Chicago

Lest We Forget

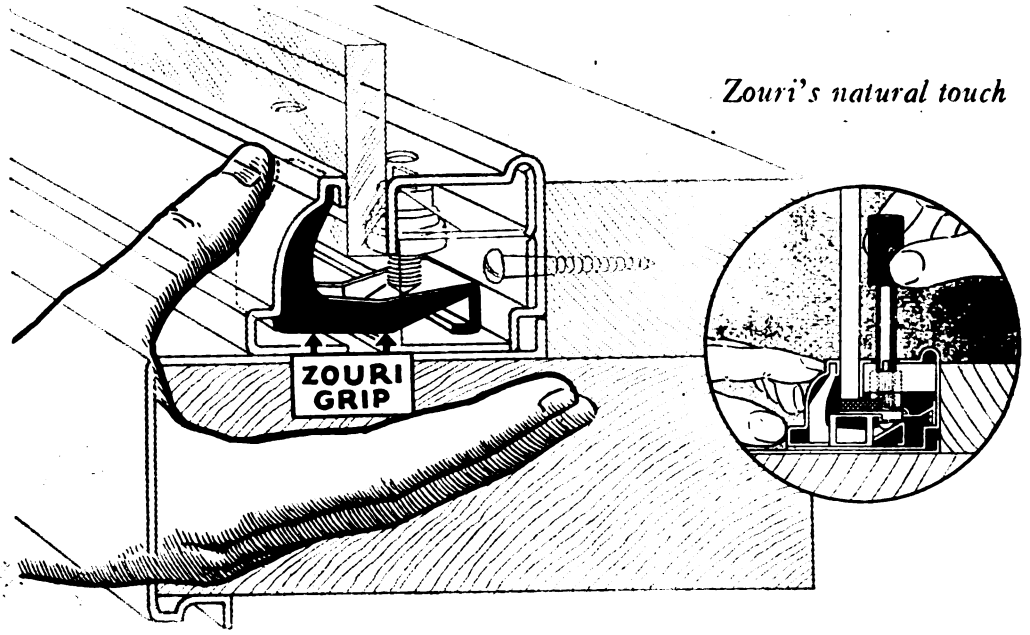
FIRE PROTECTION WEEK

October 5 to 11

reminds us that 15,000 people died *needlessly* from fire in the past 12 months.

YOU can help to prevent future deaths by a wider use of fire-resistive materials such as metal lath and Corna-lath.

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Zouri Indirect Key-

EXTEND your thumb and fingers for a handshake—there you have the fundamental principle of Zouri's natural grip.

Pressure on the fingertips moves the thumb forward. In precisely the same way, with a touch equally as firm and gentle, the full length of Zouri's copper gutter moves forward with every turn of the key.



Useful detail sheets and data book

This handbook has been written for architects, contractors and builders. It deals primarily with construction and gives plans and diagrams showing best approved methods of window and display space arrangement. The detail drawings will be welcomed by specification writers. A word from you will bring them—promptly.

ZOURI KEY-SET STORE FRONT CONSTRUCTION

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-Set Store Fronts

This simple method of setting glass, distributing key-pressure evenly, eliminates the perils of installation, and assures profit to the contractor.

Zouri's lasting protection against shock and strain, as well as its exclusive setting devices, has won for it the Underwriter's approval.

You can get Zouri Store Fronts promptly from the largest body of distributors in the field.

Zouri Drawn Metals Company

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Now 4 new profit making facts on building

These will interest every builder, carpenter or prospective home owner. They mean profit—satisfied owners—new business. This tells you how.

THE biggest expense of house owning is the *cost of keeping warm.* Today people want to build or buy homes that have a guarantee of low fuel costs—that stay cozy in all weather. They look for houses that are free from the draughts that bring coughs, colds and ills more serious—and that *save coal.*

There is a way to this new heating economy. It is contained in the four facts below. Not only low fuel cost, but *comfort* results from this new system. No cold floors, no uneven heating—no dust or soot in the house.

Know These Building Facts

It will pay every builder to read these facts. And then to find out how to use them for profit.

1. 27 coal dollars out of every 100 spent for house heating are wasted thru cracks around the windows and doors.
2. Science proves cracks around *each window* equal a hole 4 inches square—to let in dust and cold.
3. Ceco improved Slide Lock Weatherstrips stop 96% of this loss by scientifically closing these cracks.
4. Ceco equipped windows *always* slide easily—yet never rattle, loosen or wear out.

Note This Man's Experience

John H. Martin of Pennsylvania has sold and installed Ceco Weatherstrips for many years. He recently wrote us as follows:

"Here is a statement of two of my jobs:

The residence of Mr. J. B. Myers—	
Material	$ 39.00
Labor	44.00
Total expense	$ 83.00
Contract price	130.00
The residence of Mr. S. Z. Moore—	
Material	$ 70.00
Labor	54.00
Total expense	$124.00
Contract price	174.00

"Subtracting 10% of contract price for overhead, and having not put any of my time, except giving my estimate, I can say that I made $66.60 on an investment of a few dollars and a few hours of my time.

"I have never discovered a strip to compete with the Ceco line in quality, and will always recommend it heartily."

You, too, can build a profitable business in Ceco strips. Find out how. Mail the coupon.

Profit Here For You

45,375 houses are already Ceco equipped. Every Ceco user reports fuel savings and comfort.

The Ceco representatives who sold these jobs have made substantial profits. Each year they sell more. And their profit increases.

The Ceco Weatherstrip Company has an opening, perhaps in your own town, for every good builder or carpenter who wants a business of his own. Write for details.

If you are now in the weatherstrip business find out how the Ceco line can increase your profits. Perhaps, too, it can make your business relations more pleasant. 91 per cent of the original Ceco Agents are still with us.

The coupon below will bring full details of the Ceco selling plan. Mail it today. And write for the Ceco book showing how other builders are using Ceco equipment to help them sell houses.

CECO WEATHERSTRIP CO.

1926 South 52nd Avenue
Chicago, Illinois

Mr. Moore says: "My home is exposed on all four sides, located on an elevation, and the weatherstripping was a most important factor in keeping comfortable. — It will mean a saving of at least 20 per cent in coal."

Ceco weather stripped home of Mr. S. Z. Moore Lancaster, Pa.



And this from Mr. Francis: "During severe cold and wind storms, one can sit close to the window in perfect comfort. The Weatherstrips, furthermore, effect a considerable saving in fuel expense."

Ceco weather stripped home of Mr. E. Charles Francis, Woonsocket, R. I.

Ceco

METAL WEATHERSTRIPS

"Keep the Weather Out"

Clip and Mail—Be Sure to Fill In All Data

Ceco Weatherstrip Co.,
Dept. B-1—1926 So. 52d Ave., Chicago, Ill.
Without obligation tell me about Ceco Strips and your Agents plan.

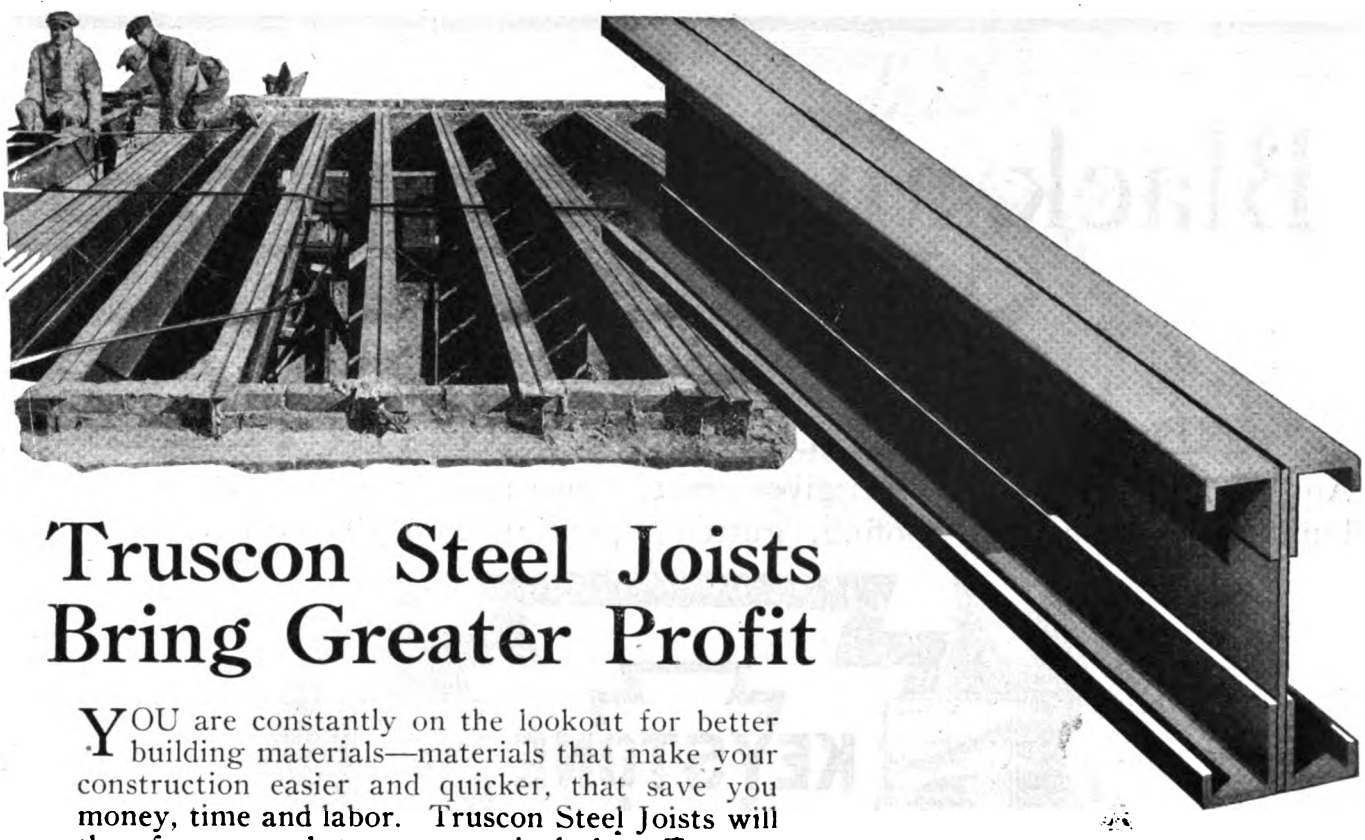
I am an experienced Weatherstrip man ☐
I have never sold or installed Weatherstrips ☐

My present occupation is.....

NAME .....

ADDRESS.....

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Truscon Steel Joists Bring Greater Profit

YOU are constantly on the lookout for better building materials—materials that make your construction easier and quicker, that save you money, time and labor. Truscon Steel Joists will therefore appeal to you particularly. Truscon builds up these Joists for you—to the length specified—they come to you complete, do not have to be cut or fitted. Learn from Truscon how you can make your construction more profitable with Steel Joists.

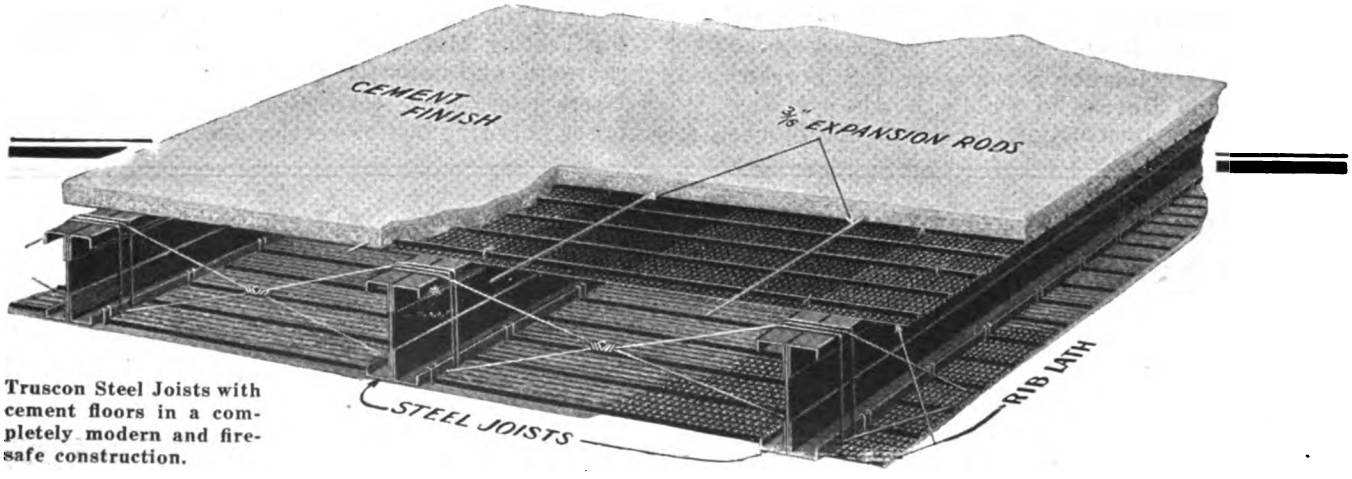
Write for catalog and information

TRUSCON STEEL COMPANY, Youngstown, Ohio

Warehouses and Sales Offices in Principal Cities
Foreign Div.: New York. Canada: Walkerville, Ont.

Truscon Steel Joists give you a rigid, fire-proof and sound-proof construction. With cement floors they are actually cheaper to build with than wood joists with hardwood flooring.

TRUSCON STEEL JOISTS



Truscon Steel Joists with cement floors in a completely modern and fire-safe construction.

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KEYSTONE COPPER STEEL

Black and Galvanized SHEETS

AND HIGH GRADE ROOFING TIN PLATES

An Alloy of Copper and Steel gives greatest rust resistance and satisfaction for building construction—roofing, gutters, spouting, and all sheet metal work.



We are manufacturers of Sheet and Tin Mill products for all purposes—Black Sheets, Apollo and Apollo-Keystone Galvanized Sheets, Corrugated Sheets, Formed Roofing and Siding Products, Sheets for Special Purposes, Roofing Tin Plates, Bright Tin Plate, Black Plate, Etc. Sold by leading metal merchants.

Remember, when resistance to rust is a factor, it is important that you demand Keystone quality

Its greatest testimonial is its users:

Important railroads use Keystone for roofing and new car construction.

The U. S. Reclamation Service, the U. S. Forestry Service, and Bureau of Public Roads use Keystone for the construction of culverts and flumes.

Prominent septic tank and vault makers use Keystone for greater durability.

Successful architects, engineers, contractors, roofers and builders use Keystone for maximum wear and rust-resistance.

Leading burial vault and casket manufacturers use Keystone for increased permanence and protection underground, where both service and sentiment demand enduring quality.

Keystone Copper Steel demonstrated its excellence in the service tests of the American Society for Testing Materials. Could you ask for more thorough and impartial proof?

Users everywhere favor Keystone for all purposes requiring lasting service. Send for *"Facts."*

American Sheet and Tin Plate Company

General Offices: Frick Building, Pittsburgh, Pa.

DISTRICT SALES OFFICES

Chicago Cincinnati Denver Detroit New Orleans New York Philadelphia Pittsburgh St. Louis

Export Representatives: UNITED STATES STEEL PRODUCTS COMPANY, New York City

Pacific Coast Representatives: UNITED STATES STEEL PRODUCTS COMPANY, San Francisco, Los Angeles, Portland, Seattle

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"Saved many hundred sets of wooden scaffolding"

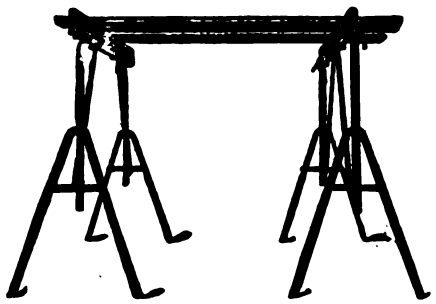
W.C. & A.N. Miller, Washington, D.C.

Lumber scaffolding quickly goes to pieces in the rough usage it necessarily gets in building work. But *Trouble Saver* Steel Brackets, Adjustable Trestles, Ladder Jacks, and Steel Scaffolding are almost indestructible. But we will let Mr. Miller tell you the story.

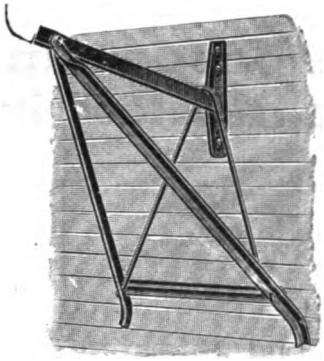
"As you know we have used your scaffolding brackets for a great many years and I believe that we are still using some of the first that we bought. We have saved many hundreds of sets of wooden scaffolding by the use of your brackets, and find a distinct improvement in our scaffolding equipment. They are very much easier to handle and have saved us a great deal of money, both in labor and material. If they are properly erected they are far safer than wooden scaffolding and we can highly recommend them to anyone building frame or stucco houses."

The Steel Scaffolding Co.

Evansville, Indiana



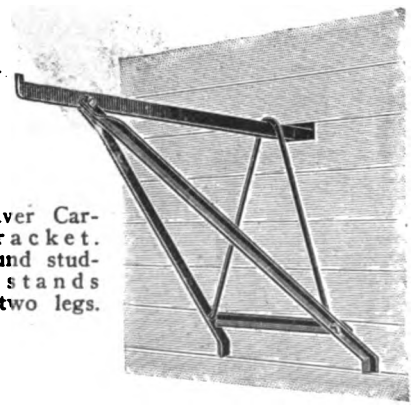
Trouble Saver Adjustable Trestles are easily and quickly adjusted. There are only six sizes, but this gives a range of 16 inches to 10 feet.



The Trouble Saver Stucco Bracket is quickly and firmly attached with four nails, and stands firmly on two legs.



The Trouble Saver Ladder Jack distributes the weight on three rungs. The same jack can be applied below the ladder if desired.



Trouble Saver Carpenter Bracket. Hooks around studding and stands firmly on two legs.

Please send me complete information on your **Trouble Savers** and also information about your special 30-day trial offer.

NAME .....

ADDRESS .....

CITY ..... STATE .....

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Announcing Two New BESSLER Disappearing Stairways Greatly Improved in Every Way



A big new field of service and profit is opened up to builders and contractors as never before by these improved Besslers. Every feature you can ask for is now included, and at the same time the prices have been greatly reduced.

IMPORTANT NEW FEATURES

All Besslers are now equipped with adjustable screw hinge that brings the panel flush with ceiling, no matter how wide the joists may be. This and other new features are exclusive with the Bessler.

Model 97, shown at the left, is more roomy, better made and better looking than ever. It includes many patented and exclusive Bessler features; comes in all sizes from 7 to 16 feet.

Prices have been so much reduced as to make Besslers indispensable

This new Model 50, at the right, is the lowest priced disappearing stairway made. It is six inches narrower than Model 97, and of proportionately lighter construction. It embodies every desirable Bessler feature, and is strong, easy working and durable. Made in 4 sizes, for 8 ft., 8 ft. 6 in., 9 ft. and 9 ft. 6 in. ceilings.



BUILDERS—DEALERS

With the new features and at the new low prices, Besslers are winners of new business for you. You cannot help but be interested in the particulars. Wire or write.

THE BESSLER MOVABLE STAIRWAY CO.

1901 East Market Street **Akron, Ohio**

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Announcing The
CINDER CONCRETE CORPORATION

Licensing Agent Under Straub and Bo Patents

120 West 42nd Street, New York

The Cinder Concrete Corporation is organized for the purpose of further developing the Cinder Products Industry and through scientific research, engineering service and educational work maintaining the high standards of Cinder Concrete Products.

The Cinder Concrete Corporation has the authority to grant licenses under both the Straub Patent and the Bo Patent. It will promote new plants throughout the United States for the manufacture of block, brick and tile, according to these well-known processes.

The main office is in New York City, and branch offices are maintained at 416 Union Trust Building, Rochester, N. Y., and at 908 Park Building, Pittsburgh, Pa.

We feel justified in believing that this new arrangement will be of great benefit to the industry, and we trust that the good will we have enjoyed in the past will follow the new corporation in the future.

Our new name for an old and thoroughly tried and widely distributed product

CINCRETE

(cinder concrete building units), has been registered as a Trade Mark in the U. S. Patent Office and will apply to products manufactured under the sanction of the new licensing agent.



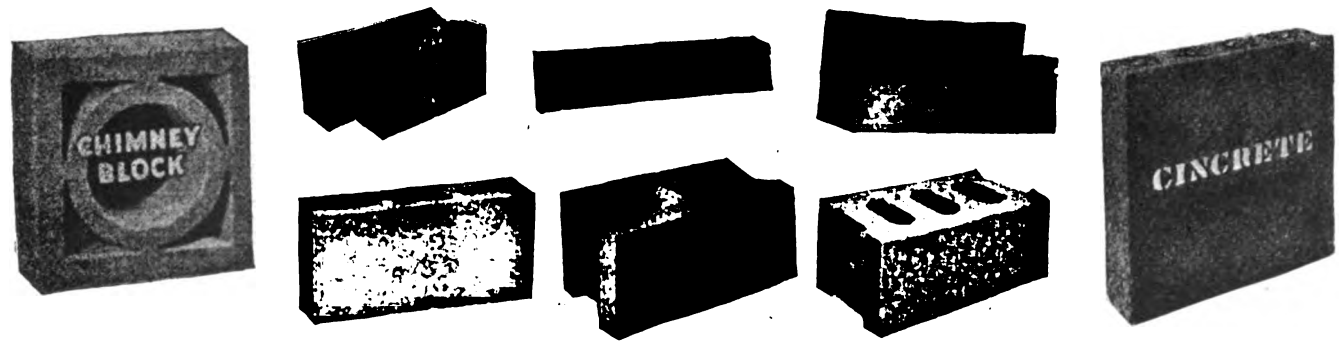
As good as wood for nailing and the nails hold

SEE OUR CATALOGUE IN SWEET'S

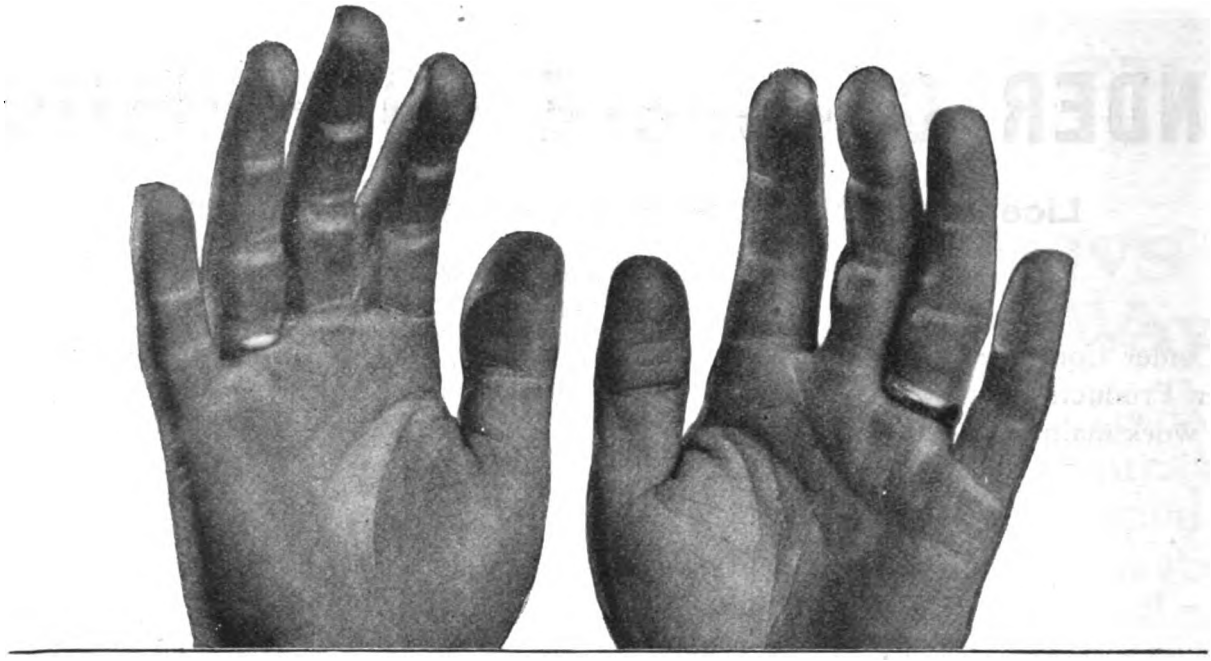
Pages 194-5

CROZIER-STRAUB, Inc.

120 W. 42nd Street **New York City**



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These earn $10 per day

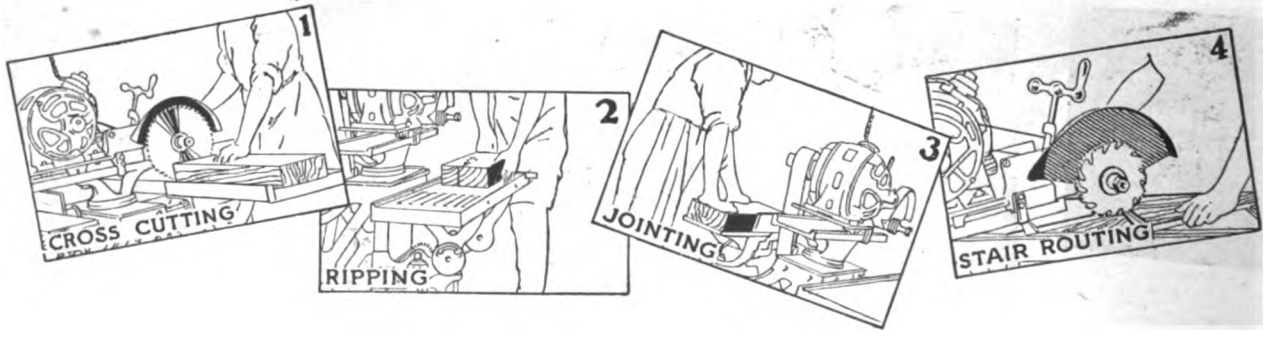
This advertisement is addressed to the carpenters whose skilled hands, working with ordinary tools, earn on an average about $10.00 per day.

We offer such men the opportunity of doubling, perhaps trebling, the earning power of those hands.

Scores of carpenters throughout the country have bought Master Woodworkers and are now earning from $20.00 to $30.00 per day where they formerly earned $10.00.

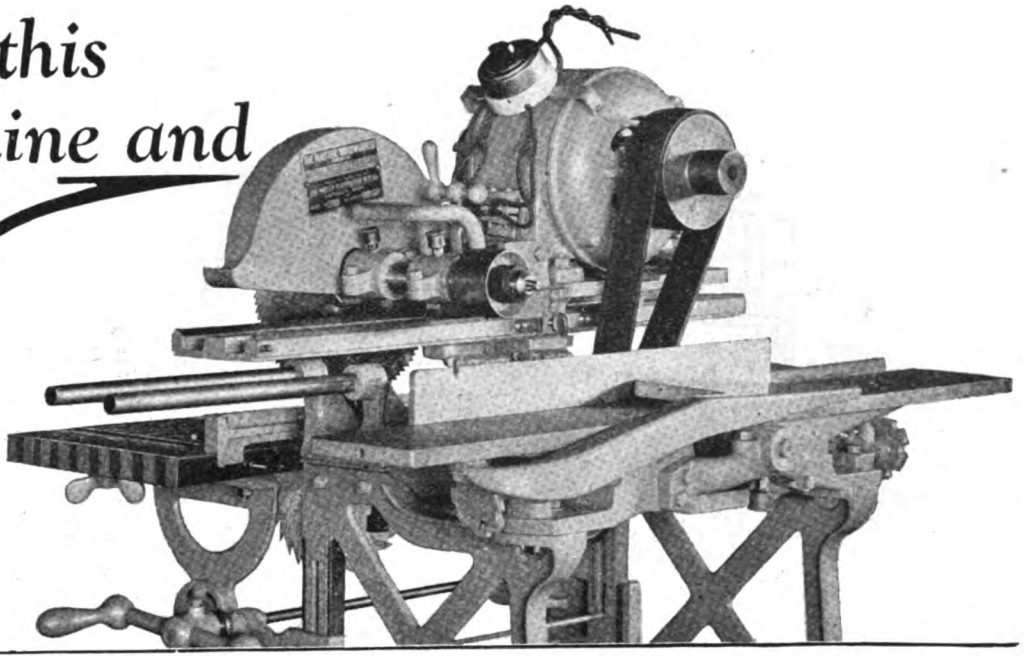
One skilled man, working with a Master Woodworker, can do as much work as 4 to 6 men working with ordinary carpenters tools. So you see why it is easy for a man, owning one of these machines, to keep busy constantly at double and treble the ordinary carpenter's wages.

Here is the opportunity you have been looking for to double your income. Don't hesitate because you feel you cannot afford to buy the machine. It will pay for itself. All we ask is a small down payment. Then you can take just a part of your in-



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Add this machine and



They earn $20 per day—or more

creased wages and meet the small monthly payments required.

Read these details:

The Master is really 12 machines in one, doing all these operations: cross cutting, ripping, joining, boring, sanding, dadoing, planing, routing, mitering, rabbeting, moulding, band-sawing, mortising, tenoning, grinding, matching tair routing and making inside door jamb and jack rafter cuts in one operation.

Rips 2" stock at 30 ft. per minute.

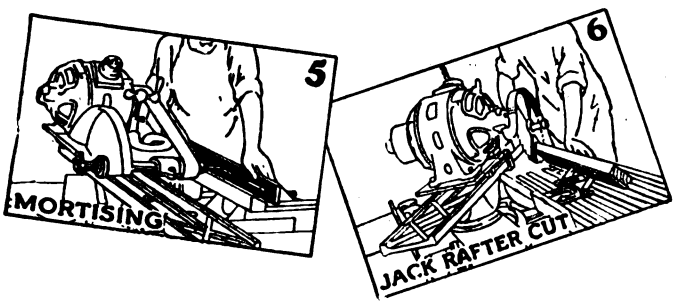
Can easily be transferred from job to job in an ordinary Ford pick-up box.

Don't pass up this opportunity without thorough investigation. Sign and mail the coupon for our big new catalog showing complete details.

MASTER WOODWORKER
MANUFACTURING COMPANY

612 Brush Street DETROIT, MICHIGAN

Mail This Coupon for Free Big Book



Master Woodworker Mfg. Co.
612 Brush Street, Dept. A.
Detroit, Michigan

Send me your Big Book free showing me how to double or treble my wages.

*Name*_____

*Address*_____

*City*_____ *State*_____

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EXTRA Profits On EVERY Job

with the

FREE-O-DUST

Super Surfacer



Today there are no buildings without floors and every one of them must be surfaced. Hand scraping is slow and hard and yields only a very small profit compared to when the work is done with the FREE-O-DUST Super Surfacer.

The automatic operation of the machine makes the work very easy and assures better and faster work. Within half an hour any one of your helpers will be going along like the best of them.

The only machine on the market that picks up every particle of dust on the forward as well as on the backward movement. This is of particular advantage when resurfacing old floors in buildings that are occupied and protects the health of the operator by preventing him from inhaling the poisonous substances that often accumulate in wood flooring.

Can be operated right up to the baseboard and has many other exclusive features. Will pay for itself on the first few jobs and add from one to five thousand dollars to your profits every year.

It does not obligate you to write for details about our FIVE DAYS' FREE TRIAL offer and free copy of our booklet "A DAY'S WORK." Write today. This booklet gives facts, figures and full information on how you can do "A WEEK'S WORK IN ONE DAY."

ELECTRIC ROTARY MACHINE CO.

3833 W. Lake Street, Chicago, U. S. A.

Manufacturers of floor surfacing machines for twenty years.

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Before new entrance was installed.





After new entrance was installed.

What a world of difference
a beautiful entrance makes!

It is a significant fact that many of the finest homes all over the country depend upon Hartmann-Sanders designing and craftsmanship for entrances of beauty.

These famous entrances are so artistic in proportions—so distinctive in beauty—so substantial in quality—and so faithful in their conformance to sound architectural practice—that no architect or contractor hesitates to stand sponsor for them.

Used in remodeling, Hartmann-Sanders Entrances literally make all the difference in the world in the appearance of the building. Besides, they enhance value far beyond their comparatively small cost.

Back of Hartmann-Sanders Entrances are 26 years of experience and America's largest facilities for economical production. They are also designed to your own or architect's specifications. Manufactured complete, ready to erect. Every entrance stabilized by famous Koll Lock-Joint Columns.

Write for new catalog No. 51 containing many entrance suggestions. Address Hartmann-Sanders Co., 2171 Elston Ave., Chicago, Ill.; Eastern Office and Showroom, 6 E. 39th St., New York City.

HARTMANN-SANDERS
Colonial Entrances

KOLL LOCK JOINT COLUMNS

THEY CANNOT COME APART

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Save time by taking your shop to your job. This one machine performs 14 woodworking operations.



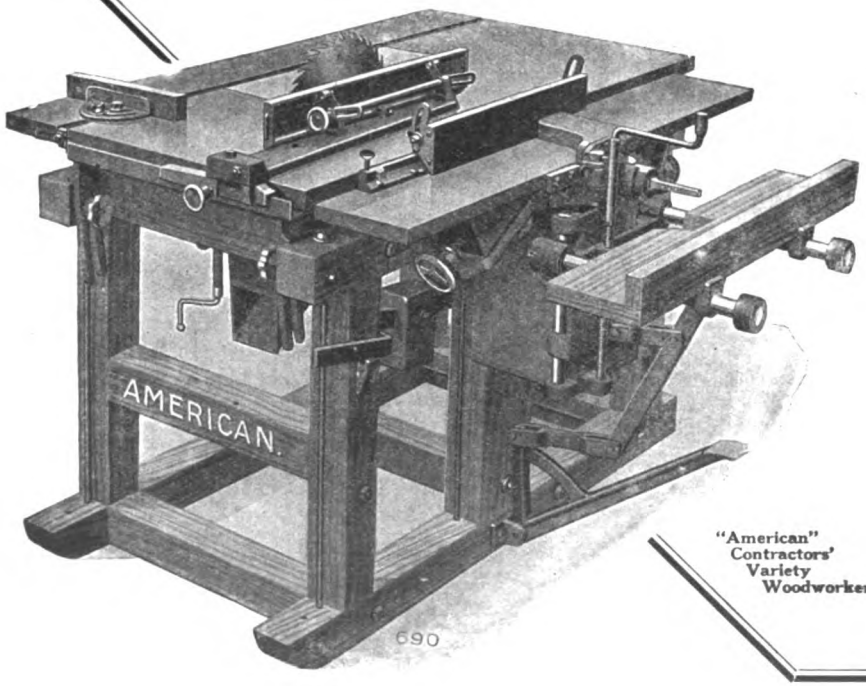
HUNDREDS of progressive contractors speed up the woodworking of their various jobs by using the American Portable Variety Woodworker. This compact, rugged machine enables you to have most of the facilities of a complete woodworking shop right where you need it—on the job. Its ability to cut costs has been proven time after time.

This one machine may be used as a rip or cut-off saw, as a dado, gaining, grooving, rabbeting, tenoning, or boring machine, as a jointer or planer, a matcher, molder or sander, and as a hollow chisel mortiser. A scroll saw attachment may also be included.

Four men can work at it at one time, each performing a different operation, without interfering with one another. In this way an enormous amount of work may be turned out in a very short time. Think of the saving over doing the same work by hand, or sending to the nearest shop for it!

The American Variety Woodworker comes either with a built-in 5 H.P. gasoline engine, with an electric motor, or without its own power, but arranged to use any which you may have available. The illustration at the bottom of the page shows the latter type.

The illustration at the top of the page shows an American Universal Saw Bench designed for ripping, cross-cutting and dadoing where accurate work is required for patterns, sashes, cabinets, furniture, etc.



"American" Contractors' Variety Woodworker

Our Bulletin No. 80 describes in detail the full line of American Woodworking machinery.

Write for it.

American Saw Mill Machinery Co.

61 Main Street
Hackettstown, N. J.

1361 Hudson Terminal Building
New York City

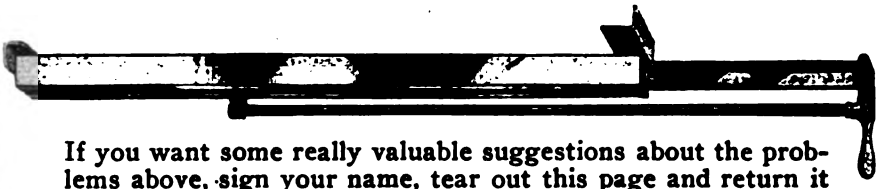
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Check the problems that interest you most-

and we will send you some helpful information

☐ How to land more building jobs	☐ How to make homes erected on speculation more saleable
☐ What to do to get a real talking point in connection with any home—old or new	☐ What to do with old buildings difficult to sell





If you want some really valuable suggestions about the problems above, sign your name, tear out this page and return it to us. Like hundreds of other builders, you will find in Knape & Vogt Clothes Closet fixtures an ideal method of making every home far more valuable and desirable to the housewife.

Knape & Vogt fixtures are sold in hardware stores everywhere, but if you are unable to find your local dealer, order from the factory direct.

PRICES

14 Inch	$4.00	22 Inch	$5.30
16 Inch	4.30	24 Inch	5.50
18 Inch	4.60	26 Inch	5.80
20 Inch	4.90	28 Inch	6.10

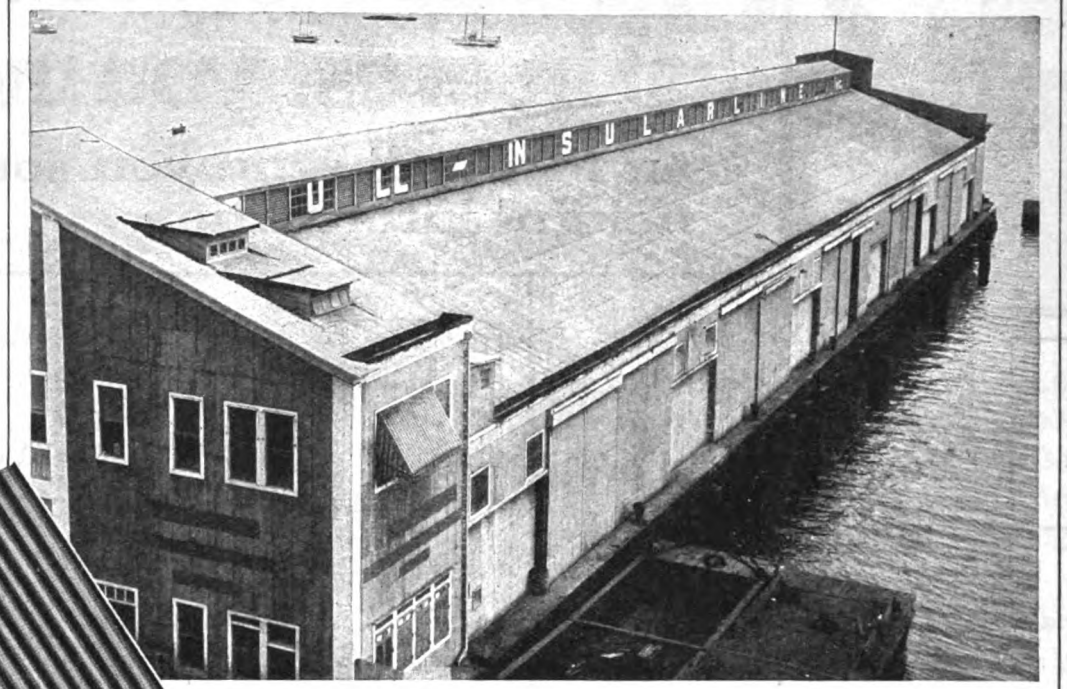
KNAPE & VOGT MFG. CO.
GRAND RAPIDS, MICHIGAN

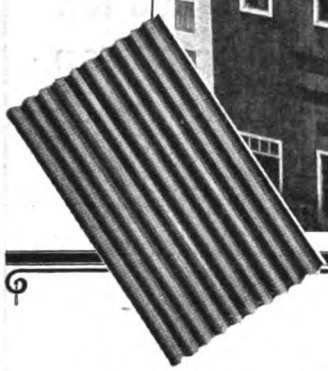
Please send me your new free folder, "Beautiful Clothes Closets," containing helpful suggestions about the problems checked.

NAME .....

ADDRESS .....

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Where roofs are constantly needing repair —

THE roof of lead is the lasting roof. Immune to rust, unaffected by any weather condition, it has long been recognized as the ideal roofing material. But pure lead, heretofore, has not been practical for roofing purposes. Available only in thick, heavy sheets, its excessive weight and lack of rigidity have made any general use impossible.

LEADCLAD has changed all this. LEADCLAD brings the wear and weather resisting properties of lead to your own roof. For LEADCLAD is pure lead without any of the disadvantages of old fashioned lead sheets. LEADCLAD is light and strong, it requires no extra roof bracing; it is handled as easily as other metals; it is absolutely rigid, strengthened with a steel core; it is not subject to the excessive expansion strains common in other rustproof metals. It is meeting many difficult roofing problems in all parts of the country.

For permanent freedom from your own roofing troubles and expense, investigate LEADCLAD. Write for samples, reports of tests and full information.

WHEELING METAL & MFG. COMPANY

Dept. M

WHEELING, W. VA.

Put Lead for permanence



Leadclad 2V-3V-5V Crimp Sheets



Leadclad Roll or Standing Seam Roofing



Leadclad Flat Sheets all sizes and gauges



LEADCLAD

COPYRIGHTED 1923

PURE LEAD — REINFORCED AND STRENGHENED WITH STEEL

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Answering the Biggest Question in the Building Industry

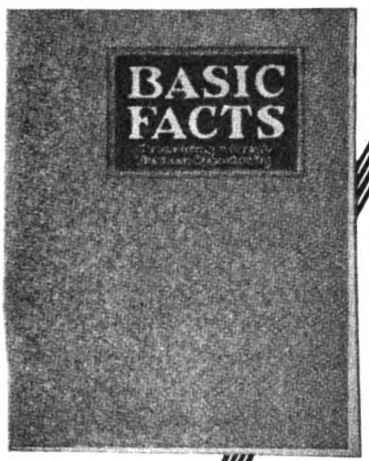
How to REDUCE the COST of *Fine* Permanent Construction ?

Every forward-looking architect, contractor and builder will be deeply interested in this newly published booklet because it shows in detail how *DUNTILE, the all-purpose Concrete building unit,* has brought finest permanent construction within the limits of common sense economy. More important even, it proves how this sound economy may be applied to the complete construction of *every* type building.

Astonishing as it may seem to those not yet fully acquainted with its merits, *DUNTILE reduces the cost of finest permanent construction to the level of frame or 30% less than brick.* This perfected building unit combines light weight with great strength; provides super-insulation; is damp-proof, fire resisting, efficient in the wall, easy to lay. And, being made in all standard sizes, it lends itself to ALL construction, either alone or with other materials.

The above barely outlines the great practical value of the information contained in this booklet; use the coupon below to send for your copy!





How YOU May Win MANUFACTURING INDEPENDENCE through this Great Product!

If you are in position to take advantage of a manufacturing opportunity that offers substantial immediate returns and practically *unlimited* future, you surely will be interested in the example set for you by some 250 successful men who own independent DUNTILE manufacturing plants.

The plain facts back of these successes are simply these: DUNTILE offers such decided advantages that it rapidly becomes the preferred building unit wherever introduced. Scientific production in Standardized DUNTILE Plants results in manufacturing profits of 30% to 60%.

All the facts and figures brought out through the widespread manufacture of DUNTILE have been condensed into a concise volume, "BASIC FACTS," which enables you to learn exactly what you may expect to accomplish with a DUNTILE plant of your own. Do not wait until someone else has taken advantage of the opportunity that today is yours; mail the coupon now!

W.E.DUNN MFG. CO.

700 WEST 23RD STREET,
HOLLAND, MICHIGAN.

☐ Show me how I can build permanent, fireproof masonry walls at cost of frame, or 30% less than brick, and make more money for myself.

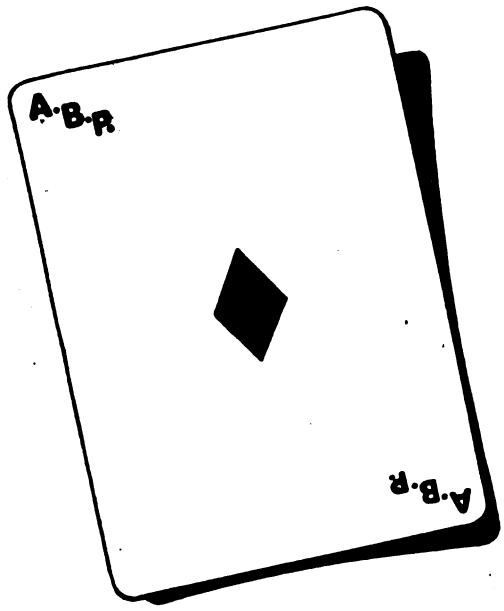
☐ Show me how a moderate investment will enable me to manufacture DUNTILE at a profit of 30 to 60% and still compete successfully with other materials.

Name .....

St. Address .....

City ..... *State* .....

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ACES

COMMON usage restricts this term to those men or those things that have reached the top.

A. B. P. in the world of advertising, enjoys much the same acceptance as does A-C-E in the world at large. This distinction is the logical outgrowth of sound principles and practices.

Ten years ago, the men who founded the A. B. P. had a big vision. They believed that the time had arrived for the establishment of an organization that would automatically attract to it only the best business papers and that would automatically exclude any publications that could not measure up to the exacting requirements of membership.

Furthermore it was believed that such an organization would serve not only as a reward of publishing merit but would act too as a powerful stimulant in favor of better publishing practices.

All of these hopes have been more than realized, and a schedule made up of A. B. P. papers may justly be said to be composed of the "aces" of the business paper field.

Every A. B. P. Publication must furnish an audit of circulation made by the Audit Bureau of Circulations, but this is only ONE of ten Standards of Practice which must be subscribed to and maintained. This is the quantitative unit of measurement, but of even greater importance are the nine other Standards which have to do with the QUALITATIVE factors.

Ask us anything you want to know about Business Papers or the fields they cover.

THE ASSOCIATED BUSINESS PAPERS, INC.

Headquarters: 220 West 42nd Street, New York, N. Y.

Over 120 Papers Reaching 54 Fields of Trade and Industry

"Member of The Associated Business Papers, Inc." means proven circulations PLUS the highest standards in all other departments.

A.B.P.

Building Age and National Builder is the only general building publication that is a member of the A. B. P.

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WONDER

The *extra cost* of **WONDER** quality assures you *less cost* in the use of them.

Construction Machinery Company

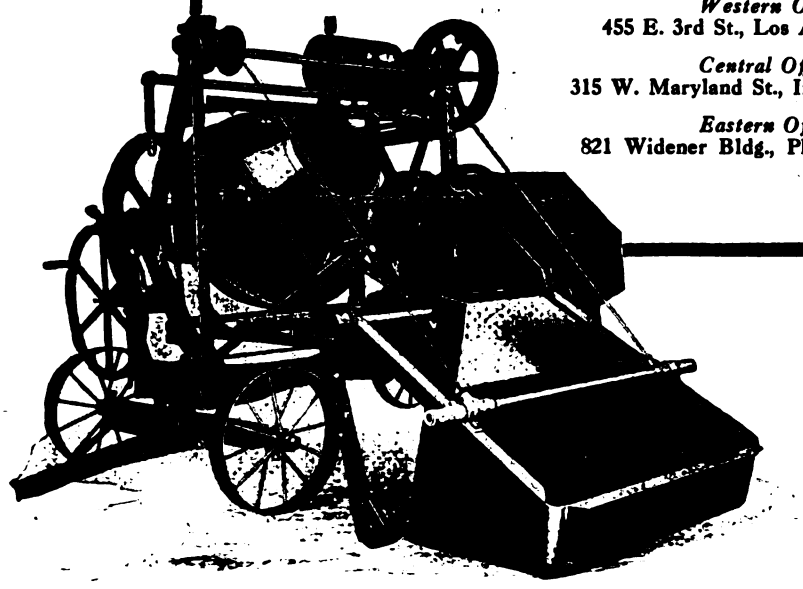
GENERAL OFFICE AND FACTORY

Waterloo, Iowa

Western Office
455 E. 3rd St., Los Angeles, Calif.

Central Office
315 W. Maryland St., Indianapolis, Ind.

Eastern Office
821 Widener Bldg., Philadelphia, Pa.



THE WISE CONTRACTOR WORKS WONDERS

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CASEMENT WHITCO HARDWARE



"The Easy Hardware"

The fact that the hinge side of a WHITCO-EQUIPPED casement when fully opened, moves away from the jamb 4½ inches, makes it *easy* and *safe* to clean the outside of casement sash from within the room. The illustration shows the idea exactly.

So completely does this feature overcome all objections to the use of casements on upper floors, that many of the foremost architects and builders in various parts of the country are now specifying and using WHITCO equipped casements for apartment houses and hotels.

WHITCO is a simple, self contained unit for swinging and controlling casement sash and transoms. One size fits all sash, and is easily and economically applied to single sash, pairs of sash, and multiple sash in wide openings without mullions — or to transoms.

You can buy WHITCO from your hardware dealer.

WHITCO is manufactured in solid brass and in rust-proofed steel, brass trimmed. It is inexpensive and the labor cost of installation is much less than when any other type of hardware is used.

VINCENT WHITNEY COMPANY

Western Offices:
365 Market Street
San Francisco

CASEMENT WHITCO HARDWARE

Eastern Offices:
636-645 Mass. Trust Bldg.
Boston

Send all inquiries to nearer Office.

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KOEHRING DANDIE Light Mixer

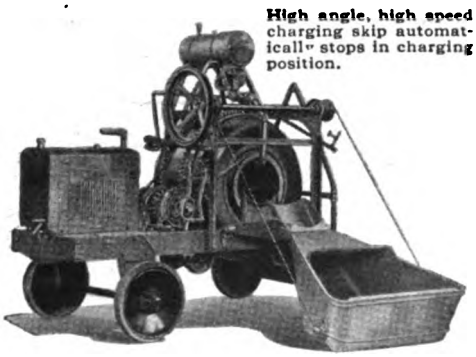


Koehring Dandie 107-S. Two or four cylinder gasoline engine. Transmission in oil bath. Mounted on roller bearings. Power charging skip or hopper and platform. Rubber tired disc wheels, or steel rimmed wheels. Complies with A. G. C. Standards.

Wide charging hopper takes full batch and is angled to shoot aggregate into drum in swift clean slide.



High angle, high speed charging skip automatically stops in charging position.



HIGH speed operation! Balanced lightness for fast hauling! Trouble-proof long service life! All in the same mixer, and the price still within the price range for light mixers! Koehring engineering, big volume and standardized production have done it in the

KOEHRING DANDIE Light Mixer

Not the cheapest mixer—but we believe the fastest, strongest mixer in the light mixer field. Extraordinarily fast charging, liberal drum dimensions and fast discharging controlled from either side makes it the big profit earner. Send back the coupon today.

KOEHRING COMPANY MILWAUKEE WISCONSIN

PAVERS, MIXERS—GASOLINE CRANES, DRAGLINES AND SHOVELS

Sales Offices and Service Warehouses in all principal cities

Foreign Dept., Room 1370, 50 Church St., New York City
Canada, Koehring Company of Canada, Ltd.,
105 Front Street, East, Toronto, Ontario
Mexico, F. S. Lapum, Cinco De Mayo 21, Mexico, D. F.

Send Back the Coupon for Full Details!

Take our word for it, you will be putting yourself in the way of extra profits and extra value if you learn all about the details of this Dandie Model before you decide on a one bag light mixer. No obligations. Send back the coupon today!

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KOEHRING COMPANY, Dept. D—4 MILWAUKEE, WIS.

Without obligation to me of any kind, send me free information about the Koehring Dandie Light Mixer.

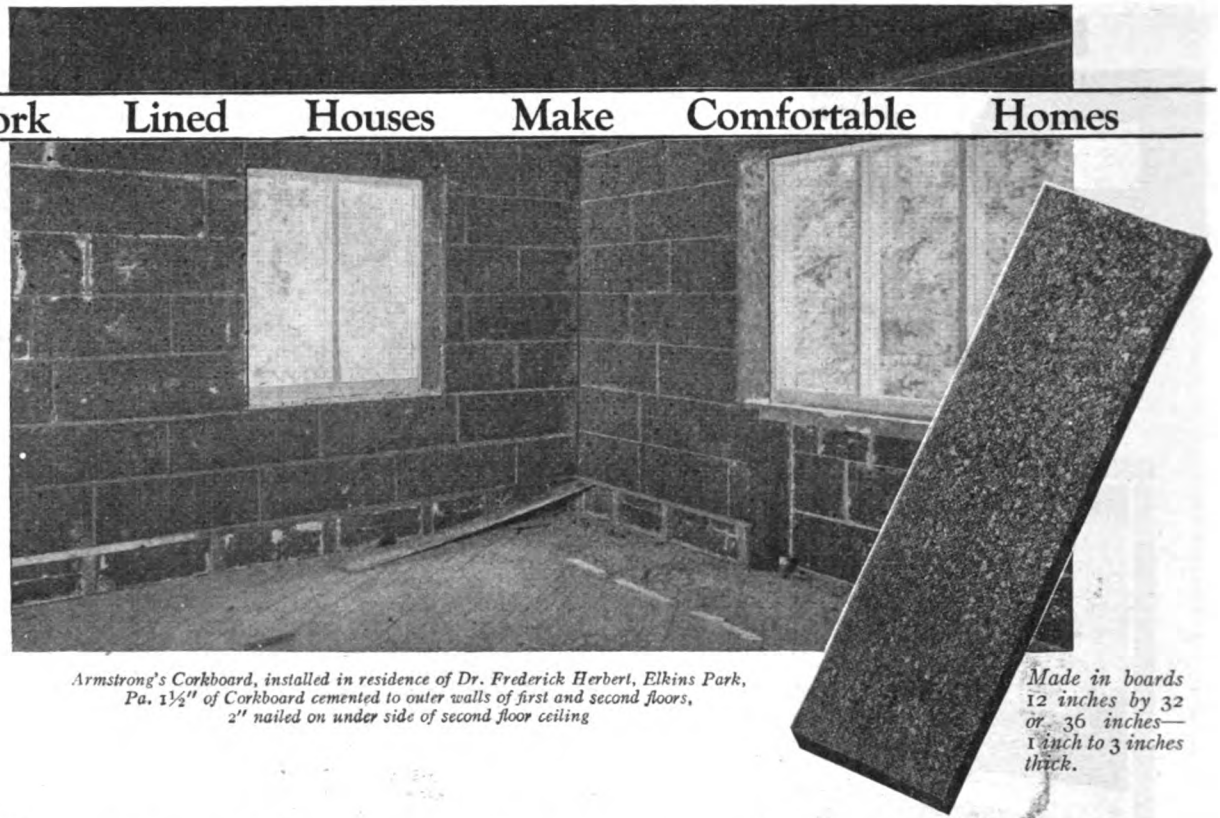
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Cork Lined Houses Make Comfortable Homes

Trade Mark



Armstrong's Corkboard, installed in residence of Dr. Frederick Herbert, Elkins Park, Pa. 1½" of Corkboard cemented to outer walls of first and second floors, 2" nailed on under side of second floor ceiling

Made in boards 12 inches by 32 or 36 inches—1 inch to 3 inches thick.

The Intelligent Demand Is for Insulated Houses

HOME buyers who keep up with the times know about insulation and what it means in comfort and economy. They know that cork-lined houses are easier and cheaper to heat—warm in winter and cool in summer.

Knowing these things, careful home owners are demanding insulated houses, and progressive builders are building them; they realize that there is more profit to be made by meeting the demand, not by opposing it.

Armstrong's Corkboard is the most efficient and practical house insulation made. It is moisture- and vermin-proof, and a positive fire-retardant. It does not shrink, swell, or buckle. Armstrong's Corkboard is easily erected in any type of house, being nailed against studding in frame construction and on roof rafters or ceiling joists, or set in Portland cement against brick, hollow tile or concrete. Plaster is applied directly to the cork-board, which is an excellent base for all house plasters, *without lath.*

Furthermore, Armstrong's Corkboard is not expensive and its net cost is reduced to a very low figure by reason of the fact that the cork-lined house can be easily heated with a much smaller plant.

If you are interested in building homes which are warmer in winter, cooler in summer, and much more economical to heat, write us for details—information costs you nothing. Armstrong Cork & Insulation Company (*Division of Armstrong Cork Company*), 197 Twenty-fourth Street, Pittsburgh, Pa. In Canada, McGill Building, Montreal.

Branches in the Principal Cities

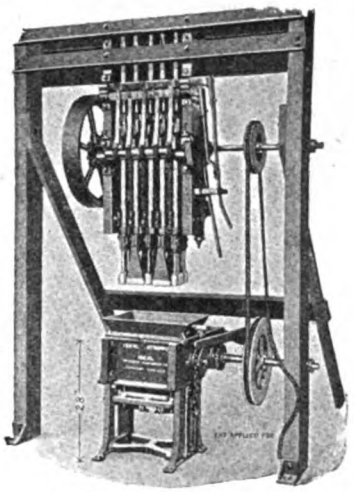
Armstrong's Nonpareil Corkboard Insulation

for Residential, Commercial and Industrial Buildings

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IDEAL
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Answer all Demands!

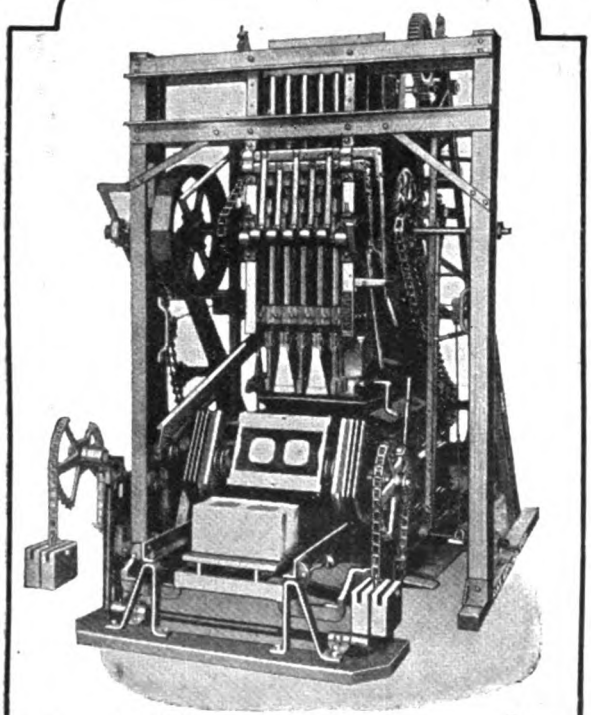


VERTICAL STRIPPER

Every demand for clean, uniform, high-grade Block and Tile is satisfied by these two superior machines: the Ideal Vertical Stripper and the Ideal Power Roll-Over Stripper. Proof: what they are accomplishing for others *without exception.* Install one of them NOW, and with building operations growing all the while, it will be easy to keep busy all Fall.

The Vertical Stripper gives you great flexibility, low absorption, density, and low, convenient offbearing height.

The Power Roll-Over produces dense, true Tile and Block. It is the only machine of the kind on the market; simple, nothing complicated, sound in every detail and easy to adjust.



POWER ROLL-OVER STRIPPER

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Good Roads Equipment Co., 1720 Lake St., Kalamazoo, Mich.
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J. G. Hopkins, 3171 W. 111th St., Cleveland, Ohio.
Ideal Concrete Machy. Co., 2374 Wrigley Bldg., Chicago, Ill.
Interstate Machy. & Sup. Co., 1006 Douglas St., Omaha, Neb.
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G. C. Kenney, 410 New York Life Bldg., Kansas City, Mo.
A. W. Knox, 208 Empire Life Bldg., Indianapolis, Ind.
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Minneapolis Equip. Co., 309-311 Fifth St., So., Minneapolis, Minn.
O'Neal Tool & Supply Co., 150 W. Larned St., Detroit Mich.
Huane Machinery Co., W. Robinson & asher Sts., Pittsburgh, Pa.
I. E. Schilling Co., 125 N. E. 6th St., Miami, Fla.
Star Machy. Co., 1731-1741 First Ave., So., Seattle, Wash.
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Waldo Bros. & Bond Co., 302 Southampton St., Boston, Mass.
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Write Today for Circulars

IDEAL

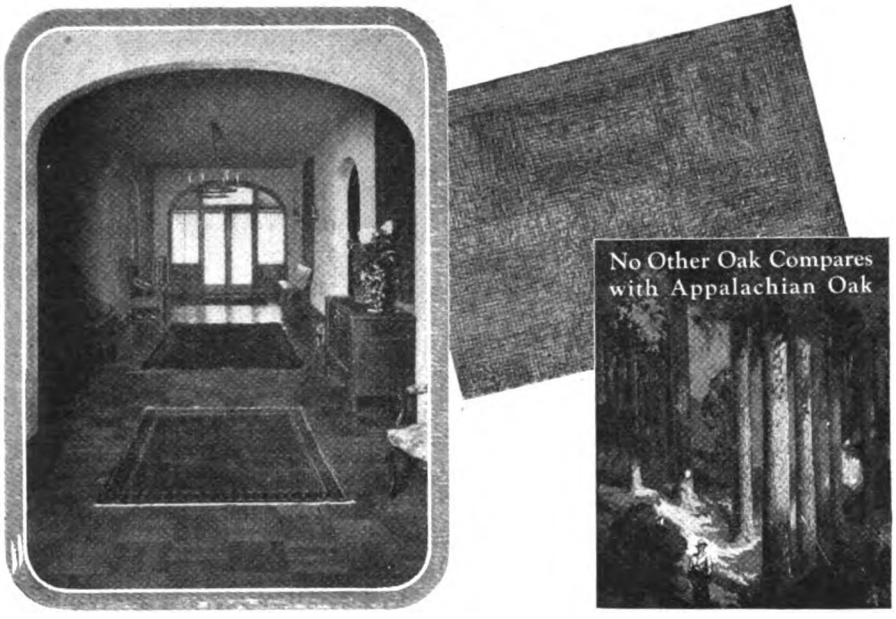
THE IDEAL CONCRETE MACHINERY CO.

5012 SPRING GROVE AVE. CINCINNATI, OHIO

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Builders Who Have Used It Once, Continue to Specify It



Caskie House, Indian Creek Village, floored with Ritter Appalachian Parquetry Oak Flooring (block pattern shown above).
Wm. Woodburn Potter, Architect, LeRoy K. Smith, Builder, both of Philadelphia, Pa.

BUILDERS who have been repeatedly disappointed with the results they have obtained from other brands of Oak flooring have become continuous users of Ritter Appalachian Oak Flooring after once trying it.

The reasons for the popularity of Ritter Appalachian Oak Flooring are the excellent quality of the timber from which it is made, due to favorable growth conditions, and the superior methods and machinery used in its manufacture and grading.

Ritter Appalachian Oak Flooring possesses all that you seek in Oak floor beauty — fine, subdued grain, even texture, uniform color, and faultless match and finish. You will be assured of satisfactory results by specifying it and insisting upon its use.

For more complete information, consult your lumber dealer or write the W. M. Ritter Lumber Company, America's largest producer of hardwoods, at 115 East Rich Street, Columbus, Ohio.

NOTE—The same characteristics of fine grain and smooth, even texture, which make possible greater beauty in Ritter Appalachian Oak Flooring, also make it more economical to lay, nail and finish. This saving, all things considered, more than offsets the slight difference in initial cost.

RITTER
APPALACHIAN OAK
FLOORING

W. M. RITTER LUMBER CO.,
Columbus, Ohio.

Gentlemen:
Kindly send me, without obligation, your booklet giving the reasons for the superiority of Ritter Appalachian Oak Flooring and other valuable information on how to properly lay flooring.

Name.....

City.....

Address.....BA-10

Mail the coupon for complete information regarding Ritter Appalachian Oak Flooring

Technical Data on Laying Oak Floors

5. How to Properly Surface Hardwood Flooring Preparatory to Finishing

After the flooring is laid and thoroughly swept, it can be prepared for finishing by surfacing in two ways; i. e., hand scraping or machine sanding.

Hand Scraping Superior If Expertly Done

If the scraping is done by hand by an expert, sanding will be unnecessary, the flooring will absorb the finishing material more evenly, and the grain and texture will show to better advantage than where power sanding is used. However, if there is any doubt about obtaining expert workmanship on the hand scraping, it is safer to use the power sanding machine.

If hand scraping is used, the final scraping should be done with a scraper sharpened to a cabinet edge.

Sanding 13/16 Inch Flooring

If power sanding is used on 13/16" flooring, it should be first traversed at 45 degrees with coarse paper (No. 2½ to No. 3) until an even surface is obtained. (Never sand directly across the grain). The final sanding should be done with the grain, using fine sand paper (No. ½ to No. 1).

Sanding 3/8 Inch Flooring

If power sanding is used on 3/8" flooring, it should be sanded only with the grain.

If any floor has been partly scraped and partly sanded, that part which has been scraped will reflect more light than the sanded portion. Therefore, the part which has been scraped should be sanded to give the floor a uniform appearance.

Laying Oak Flooring Over Old Floors

When laying hardwood flooring over an old floor, the old floor should be gone over thoroughly and any loose boards nailed down securely. This will prevent squeaks.

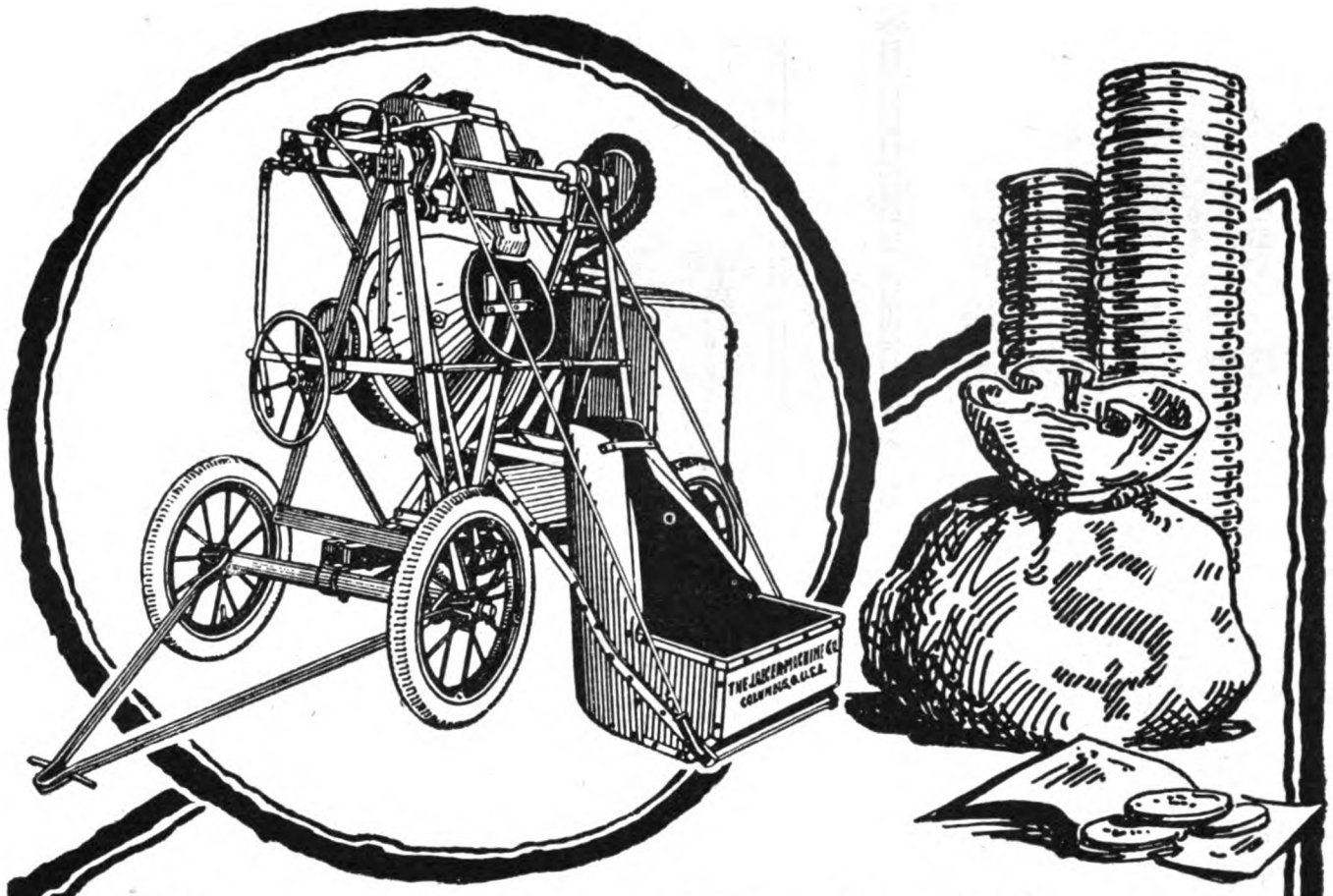
All rough or raised places in the old floor should be planed off to give a *level surface* before the new hardwood floor is laid.

The 3" tongued and grooved strips of the hardwood flooring which is used for this purpose should be laid at right angles to the boards of the old floor and nailed with 4d finishing nails, spaced not more than 8 inches.

Laying Parquetry Flooring will be discussed in the November issue of this Journal.

See Sweets and American Architect Specification Manual for complete data.

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More Profit Dollars for YOU!

AN efficient, economical production unit—the Jaeger 5-L Mixer stands in the front rank! Especially designed as an all-'round mixer for general utility work—it is a profit maker every contractor should use. Built on steel or rubber tired wheels as desired, the 5-L can be quickly placed on any job. It is fully equipped with power loader, Tip-Over Accurate Measure Water Tank and Automatic Gravity Discharge Device and all the exclusive, patented, Jaeger labor-saving advantages.

Jaeger Superiority Is Easily Demonstrated

THE Jaeger Distributor in your territory carries a full stock of 5-L's as well as Jaeger's Complete Line of 36 Concrete Mixing Outfits. Capacities range from 3 to 22 cu. ft. of unmixed materials, or 2 to 14 cu. ft. of Mixed Concrete. He will be glad to show you the full line—or the model best suited for your needs. Write us today for our latest catalog and the name of our nearest distributor. It means more "profit dollars" for you.

The Jaeger Machine Co.

216 Dublin Road **Columbus, Ohio**

JAEGER
CONCRETE MIXERS

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Murphy In-A-Dor Twin Bed installations are very popular in all high grade apartment hotels, owing to the fact that they allow for flexibility in pleasing guests, being interchangeable from twin to double beds as desired.

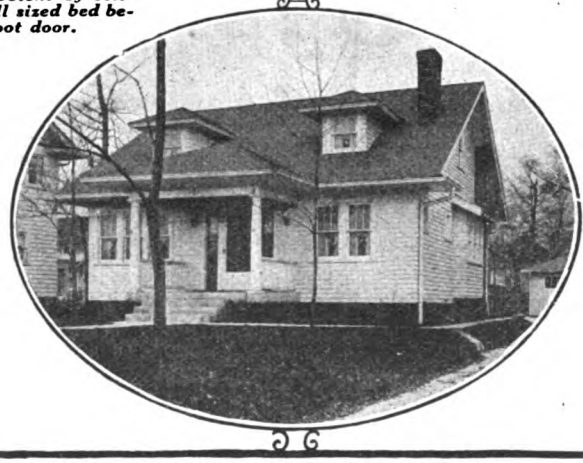


The Murphy In-A-Dor Beds in homes offer additional sleeping accommodations and solve the "extra room" problem by concealment of a full sized bed behind any three foot door.



Thousands of Homes [as well as Apartments and Hotels] are Equipped with Murphy In-A-Dor Beds

WHETHER it be a hotel, a home or a four-family flat, wherever sleeping accommodations are required, the Murphy In-A-Dor Bed idea not only eliminates the cost of building bed rooms, but makes possible complete sleeping comfort. Perfect satisfaction and convenience in limited space permits added living quarters with a greater income from rentals. The type of hotels pictured above which is equipped with Murphy In-A-Dor Beds is proof as to their merits. It costs no more to specify the best.



Write for the New Murphy Blue Print Manual—It's FREE for the Asking

The handiest reference book any architect ever possessed is free for the asking. It is a blue-print manual, a technical guide to save time, trouble and worry for architects all over the United States. There is a blue-print plan to solve every concealed bed problem.

The MURPHY IN-A-DOR BED

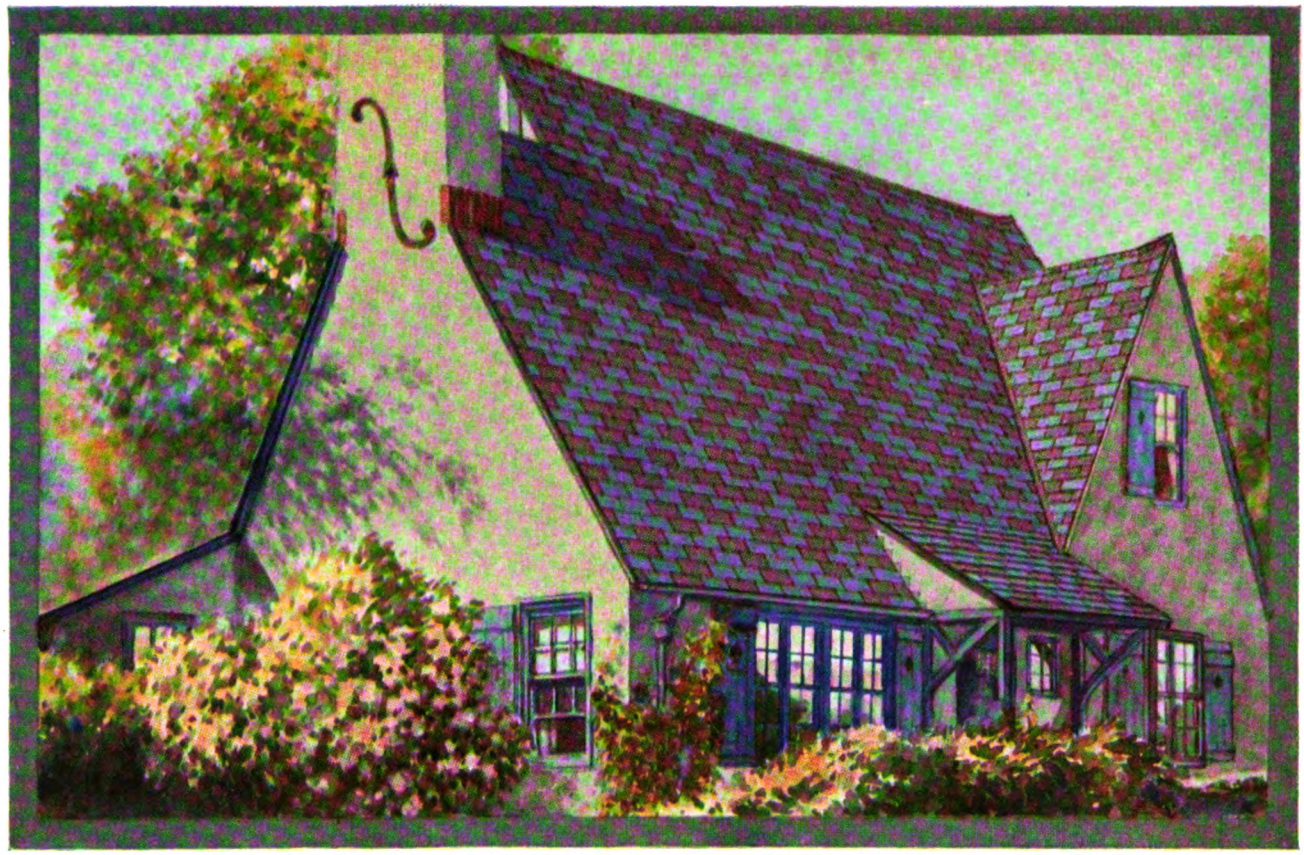
THE MURPHY DOOR BED COMPANY

Offices in all Principal Cities

Chicago, Ill.....22 W. Monroe St.
St. Louis, Mo.....315 N. 10th St.
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Kansas City, Mo.....1114 Grand Ave.
Dallas, Tex.....1919 Pacific Ave.
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Houston, Texas.....2301 Main St.
New Orleans, La.....319 Dryades St.

New York City.....19 W. 44th St.
Atlanta, Ga.....204 Arcade Bldg.
Seattle, Wash....Terminal Sales Bldg.
San Francisco, Calif.....Crocker Bldg.
Los Angeles, Calif....1807 S. Main St.
Denver, Colo.....1534 Blake St.
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Montreal, Can.....153 Peel St.
St. Petersburg, Fla. 225 Second Av., S.
Miami, Fla.....234 Columbia Bldg.

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Just the roof for a gray stucco home

This rare combination of heather and blue

Complete harmony of color, outside as well as in. That's the modern note in home decoration.

For in a wise choice of roof, body and trim color lies your greatest opportunity to beautify the exterior of your home.

Realizing this, Richardson now offers you two wholly new roofing colors, in addition to the ten distinctive colorings already found in Richardson Multicrome Roofs.

Heather purple, the purple of distant hillsides —and *dusk blue*, the deep, soft blue of an evening sky. Here are colors never before available in a roof of moderate cost.

They form just the roof for a trim gray stucco home —a roof bright enough in color to give it life, yet restrained in its soft variation of tone. Blue trim and shutters complete one of the most effective color schemes you could imagine for any home.

Other rich blends

This is only one of the beautiful effects you can secure with Richardson Multicrome Roofs. The other new colorings are equally attractive on many different types of homes.

The *tapestry tan* roof, for example, is unusually rich looking on a brick home of almost any shade.

And on an English Cottage style of house no roof could be more effective than the new *Richardson Multicrome Thatch*.

Before you build, before you re-roof, by all means see these new colorings.

With them you can make the roof one of the most effective units of your decorative scheme. One of them can give your home just the distinction and charm you have always wanted.

To help you choose

To help you choose the roof which will make the most of this opportunity we have prepared an authoritative booklet, *What Color for the Roof?*

In it, there is page after page of beautiful homes in different architectural styles, all in color to show the most tasteful effects in body, trim and roof combinations. Interestingly explained, too, are the principles of all good color schemes.

And with the Richardson Harmonizer which it contains you can see the complete effect of 54 different roof and house combinations.

The price of the book and Harmonizer is 25c. Send the coupon below for your copy.

See the new colors at your dealer's

* * *

50% thicker than the ordinary roof

The Multicrome Roof is built of Super-Giant Shingles—extra large, extra heavy. Its 50% greater thickness adds both beauty of texture and years of endurance. Its base is sturdy, long-fibre Richardson felt. Its waterproofing is Viskalt—99.8% pure bitumen, especially vacuum-processed. Its surface is slate in close, overlapping flakes—further protection against weather and fire hazards.

This roof gives the maximum roof value at a moderate price. It is economical to lay and equally good for new or over-the-old-roof jobs

The RICHARDSON COMPANY
Lockland (Cincinnati) Ohio

Chicago 250 W. 57th St., New York City
Atlanta New Orleans Dallas
63 Albany St., Cambridge (Boston)



The Richardson Company
Lockland, Ohio

Enclosed find 25c (stamps or coin). Send me your new booklet, "*What Color for the Roof?*"

Name .....

Address .....

City .....

☐ Check here for free booklet, *A Richardson Product for Every Roofing Need.*

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RICHARDSON ROOFING

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The Richardson Harmonizer
—*a powerful selling help*

"THE Most practical selling device we have ever seen." That's what hundreds of builders say about the Richardson Harmonizer—a part of the helpful new booklet, *What Color for the Roof?*

With it, you can show your prospect *in advance* how a house with a certain roof, body and trim color scheme will actually look when finished.

The book and Harmonizer sell regularly for 25 cents—but we are offering them *free* to every responsible builder.

Read more about them in the advertisement reproduced on the other side of this page. (Your prospects are reading ads like this every month in The Saturday Evening Post, House Beautiful, and elsewhere.)

You will also be interested in the new roofing colors announced in this advertisement—colors never before available in roofing materials of moderate cost.

Just attach the coupon there to your letter-head for your free copy of this powerful building and selling help.

THE RICHARDSON COMPANY
LOCKLAND (Cincinnati) OHIO
250 W. 57th St., New York City
Chicago · New Orleans · Atlanta · Dallas
63 Albany St., Cambridge (Boston)

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Capitol

MAJESTIC HOMES CORPORATION

4635 DELMAR BOULEVARD
ST. LOUIS, MO.

April
Twenty-third,
1925.

United States Radiator Corporation,
4004 Duncan Avenue,
St. Louis, Missouri.

Gentlemen:-

In reply to your recent inquiry regarding our observation of the performance of Capitol Boilers in our building operations, we are glad to be able to inform you that at the present time there are over 150 installations of Capitol Boilers in Majestic Homes. The results with your heating plants in the past have been entirely satisfactory, as we have had no single instance of complaint made by any of our home purchasers. In fact, the satisfaction has been so marked that we have on record a number of voluntary expressions of approval.

During the month of December, 1924, we experienced in St. Louis, one of the coldest months in many years, and we took it upon ourselves to check the results from these boilers in various locations, under these extreme conditions, the results being so favorable that unless some serious condition should arise to change our high opinion of your product that Capitol Boilers and United States Radiation will continue to be specified as standard equipment in Majestic Homes developments of the future.

The Majestic Homes Corporation, being perhaps the largest builder of fine homes in the middle West, feels that it cannot afford to take any chances with any other but the best of equipment in every line, and in using Capitol Boilers and United States Radiators, we feel that we are using equipment which is in keeping with the high standard of building which we maintain.

Wishing you continued success, we remain,

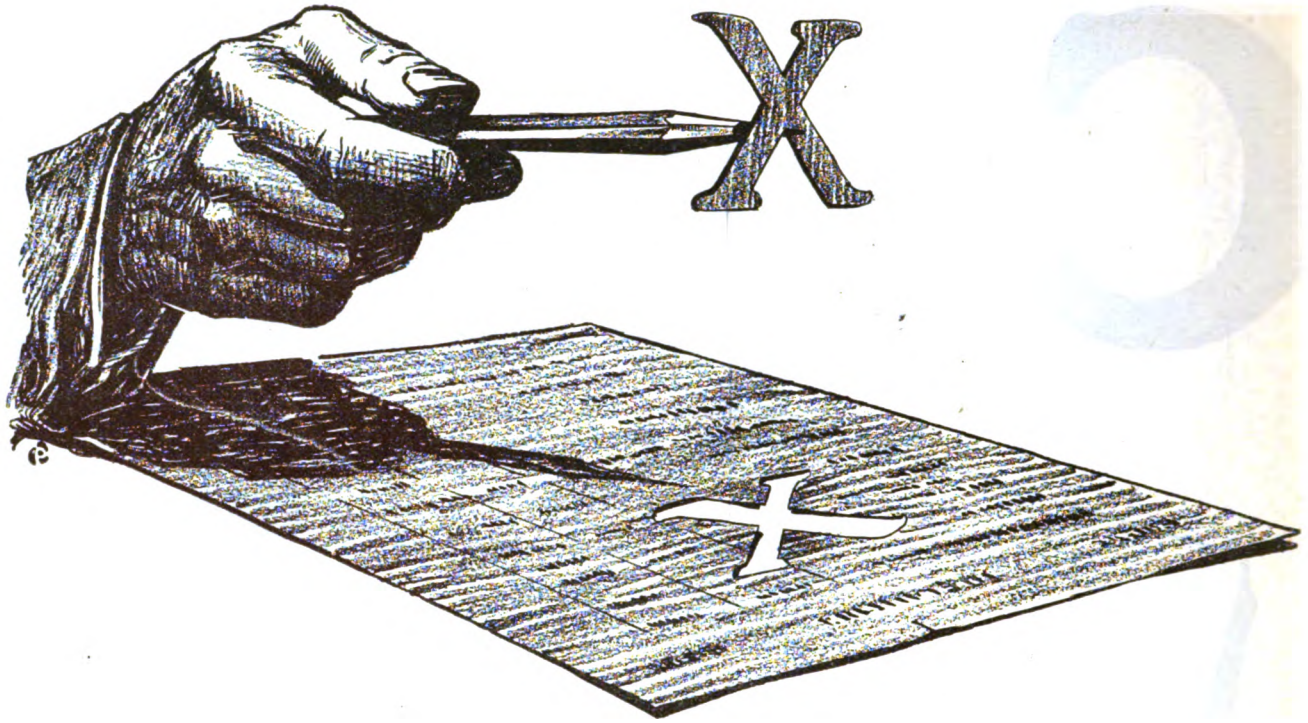
Yours very truly,
MAJESTIC HOMES CORPORATION,
Albert A. Aufricht
Vice-President.

AAA:RR

UNITED STATES RADIATOR CORPORATION
General Offices, Detroit, Michigan

Boilers

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"X" has been removed from the concrete equation

THE life of concrete construction is no longer uncertain. Moisture, the great disintegrator of unprotected concrete, can be prevented from penetrating this otherwise durable and serviceable form of construction.

"R.I.W." Toxement*, the integral waterproofing, is the great protector. As such it is performing an invaluable service for architects by preserving the beauty and lengthening the life of a great diversity of buildings, and other projects conceived by the profession.

"R.I.W." TOXEMENT*
(A Gray Powder)

For the integral waterproofing of mass concrete for foundations, bridges, piers, walls, floors, reservoirs, pits, etc. For moulded cement work, such as urns, statues, balustrades, benches, posts, etc. For tile setting in cement grout to make a firmer bond between the tile and the concrete against which the tile is laid.

No. 421 "R.I.W." ACID-PROOF TOXEMENT*
(A Gray Powder)

For the integral waterproofing and acid-proofing of concrete walls and floors in chemical plants, and concrete storage tanks.

R.I.W.
REMEMBER IT'S WATERPROOF
REG. U.S. PAT. OFF.

"R.I.W." TOXEMENT MORTAR PASTE

For the integral waterproofing of cement mortar and stucco. For cement troweled on the outside of brick or rubble foundations.

For specifications see Sweet's Catalog

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Technical and Scientific Paint and Varnish Makers
Since 1848
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The Toch Specification Book is a handy reference guide. Address Dept. N.

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Keep Right On Building This Winter

Bears and ground hogs still hibernate. But engineers, architects, contractors and building owners don't let winter drive them to cover.

They know that "time is money"— that winter is just as good as any other time to build; so they keep on building in cold weather.

The building industry, as well as the public, recognizes that this practice is not only practical but usually profitable for all concerned.

Winter construction means that builders can continue their work without interruption through twelve months. The builder's crew, which has been trained to maximum efficiency, can be kept intact and steadily employed with profit to everyone.

Winter construction by providing quicker occupancy, brings to the owner an earlier return on his investment.

During the winter there are few delays in getting material. Sand and stone are usually nearby; cement is obtainable on short notice practically anywhere. And these materials come to you ready for use—you make your building right on the job.

In winter, as in summer, concrete is the last word in speed of construction—the champion time saver.

If you have not yet experienced the advantages of winter building, plan now to do so.

And remember, where "time is money" use concrete.

* * *

The few fundamental principles of cold weather construction are simple and easy to apply. If you are not familiar with them, ask our nearest District Office for literature on winter building. There is no obligation.

PORTLAND CEMENT ASSOCIATION

A National Organization to Improve and Extend the Uses of Concrete

Atlanta	Columbus	Indianapolis	Minneapolis	Parkersburg	San Francisco
Birmingham	Dallas	Jacksonville	Nashville	Philadelphia	Seattle
Boston	Denver	Kansas City	New Orleans	Pittsburgh	St. Louis
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It Has Good Walls— Inside and out—

The Quality is in the Limestone

This house, constructed by a building supply dealer as his home, is unique in that it is absolutely fire-proof and contains only materials that are unequaled in quality.

It was only natural that White Enamel, one of our brands, should be specified for the white coat as well as all places where lime was used.

Our brands, coming as they do from the finest deposit of limestone in the world, have gained enviable fame for whiteness, purity, uniformity, spreadability and strength.

There is a dealer near you who handles one of our brands of finishing and all around building lime. It is your interest to always specify and use it.

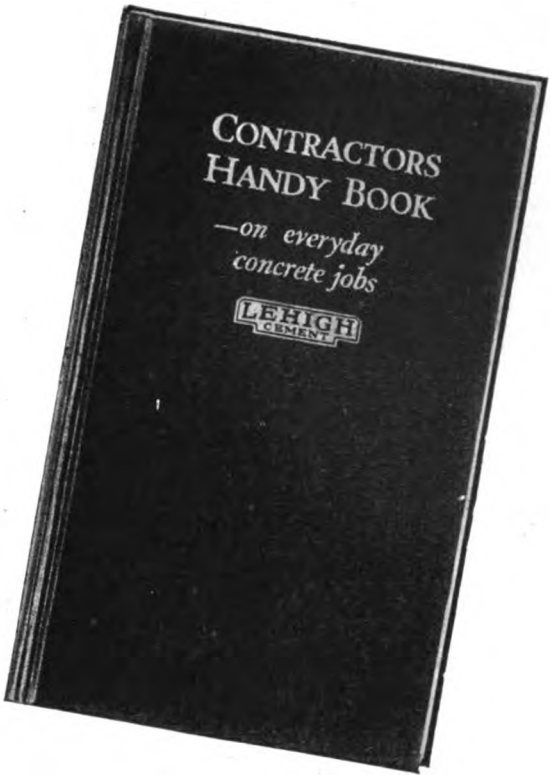
THE WOODVILLE LIME PRODUCTS CO.
TOLEDO, OHIO

White Enamel Finishing

Gold Medal Hydrated Lime

White Lily

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FREE!

"Contractors Handy Book on everyday concrete jobs"

Many contractors can make good use of this new book

THIS pocket-size book on everyday concrete jobs helps to answer the questions that are raised by prospective builders. It contains illustrations and descriptions of many different types of steps, curbs, gutters, driveways, and other forms of construction on which contractors are constantly being asked to estimate.

It also contains specifications, easy methods of accurately estimating quantities of materials and other necessary data. A copy will be sent free to any contractor on request, if accompanied by the name of the local dealer from whom he buys his materials.

This is only one step in our plan for helping contractors build business. Write us for details, or ask to have a salesman call.

LEHIGH PORTLAND CEMENT COMPANY

ALLENTOWN, PA.
BIRMINGHAM, ALA.

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CHICAGO, ILL.
SPOKANE, WASH.

19 MILLS FROM COAST TO COAST

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Wheeling

Wheeling Metal Lath

Square Corners and Straight Edges are a feature of all Wheeling Metal Lath that is appreciated alike by Architect, Contractor and the b..ilder who "foots" the bills. A saving in lapping means economy in lath *and* better workmanship.

Wheeling Metal Lath is supplied in styles to meet every requirement and every preference—Standard Diamond Mesh Lath, Wheeling Rid-Gid Lath, Wheeling ⅜ Inch Rib Lath and Wheeling Flat Rib Lath—Samples on request.

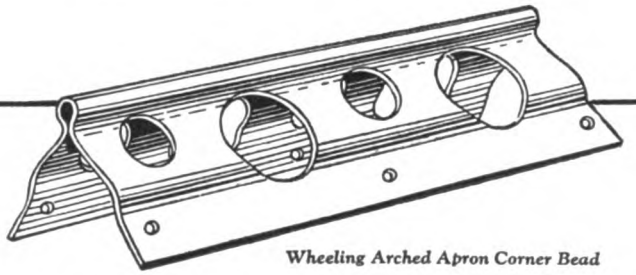
Building Materials That Save Labor

Let Wheeling meet your building needs for materials that embrace advancements and perfections in *design and manufacture.* From roof to cellar you can standardize on Wheeling products that reduce labor costs, save material and assure durability. Put your requirements up to Wheeling—or write the nearest branch.

WHEELING CORRUGATING COMPANY

WHEELING, W. Va.

New York · Chicago · Philadelphia · Minneapolis
St. Louis · Kansas City · Chattanooga · Richmond



Wheeling Arched Apron Corner Bead



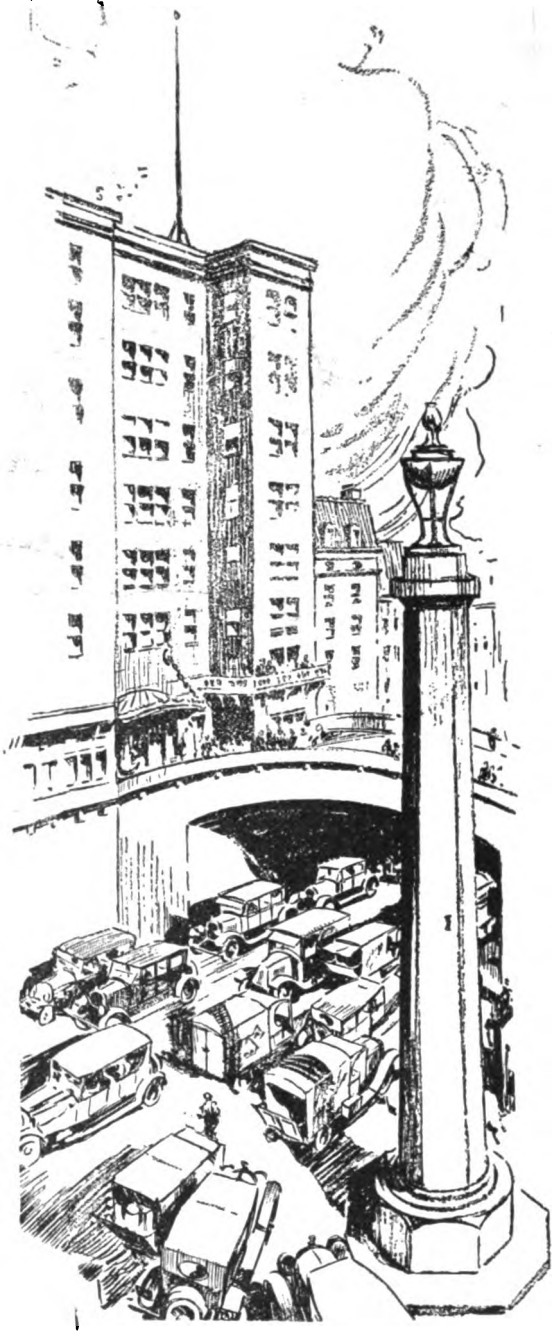
Wheeling Zig-Zag Wall Tie

WHEELING BUILDING MATERIALS:

Metal Lath	Roofings	Eaves Trough
Cut Nails	Wall Ties	Corner Bead
Shingles	Wire Nails	Mason Hods
Ceilings		Conductor Pipe

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Where automobiles go a mile under the Hudson



IN the great automobile tunnels which will soon link New York City with New Jersey, all the materials to be used have been selected with the greatest care. To make the approaches to these tunnels, vast quantities of cement will be necessary. PENNSYLVANIA, the PRE-TESTED CEMENT is the kind selected.

The use of Pennsylvania Portland Cement is a guarantee of reliability. Not only does it exceed U. S. Government standards but in the entire process of manufacture, from the selection of the finest cement rock to the final product, every step must insure quality. You may be sure that no better cement can be made by any process or by any method.

THE PRE-TEST

30 days or more before any Pennsylvania Portland Cement is ground for shipment, we thoroughly test the fused clinker from which cement is made. A miniature grinding mill installed in our laboratories duplicates actual process of manufacture. This makes it possible to know that the quality of Pennsylvania Portland Cement is certain *every time*. Every barrel exceeds the rigid U. S. Government standard requirements.

This reputation for quality has been the determining factor for the selection of Pennsylvania Portland Cement by architects and engineers in such important work as the New York and Brooklyn subways, the Hill to Hill bridge at Bethlehem, Pa., the Polo Grounds, the Bear Mountain Bridge, The American News Co. Building and the Approaches to the Vehicular Tunnels.

PENNSYLVANIA CEMENT COMPANY
Offices:
New York — Philadelphia
Boston — Buffalo

Plants: Bath, Pennsylvania; Portland Point, N. Y.

PENNSYLVANIA
PORTLAND CEMENT

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Just inside *your* Threshold



Every builder will find valuable information and help in the following chapters:

Why wood floors?
Brief history of wood floors
Red or white; plain or quarter-sawn oak flooring
Design patterns
Thicknesses; Narrow or wide face
Variety in grades and sizes
Colors and stains
Proper handling and laying
Eliminating moth worries by installing "Ceda'line"

Nothing will please a prospective owner more than beautiful and well-laid Bruce oak floors, with careful thought given to the treatment of each room to obtain interesting variety at lowest expenditure. Combinations of grades, all equally sound and lasting, will frequently effect a saving, without sacrifice of appearance.

Decoration of rooms should be in harmony with the finish applied to the floor. Natural oak color, weathered finish, or color stains for informal rooms —all suggest rich decorative effects, which give a home individuality.

Such points are fully covered in this valuable book, which will be sent you for your files; also extra copies for interested customers. Our technical department will be glad to co-operate with you, without obligation.

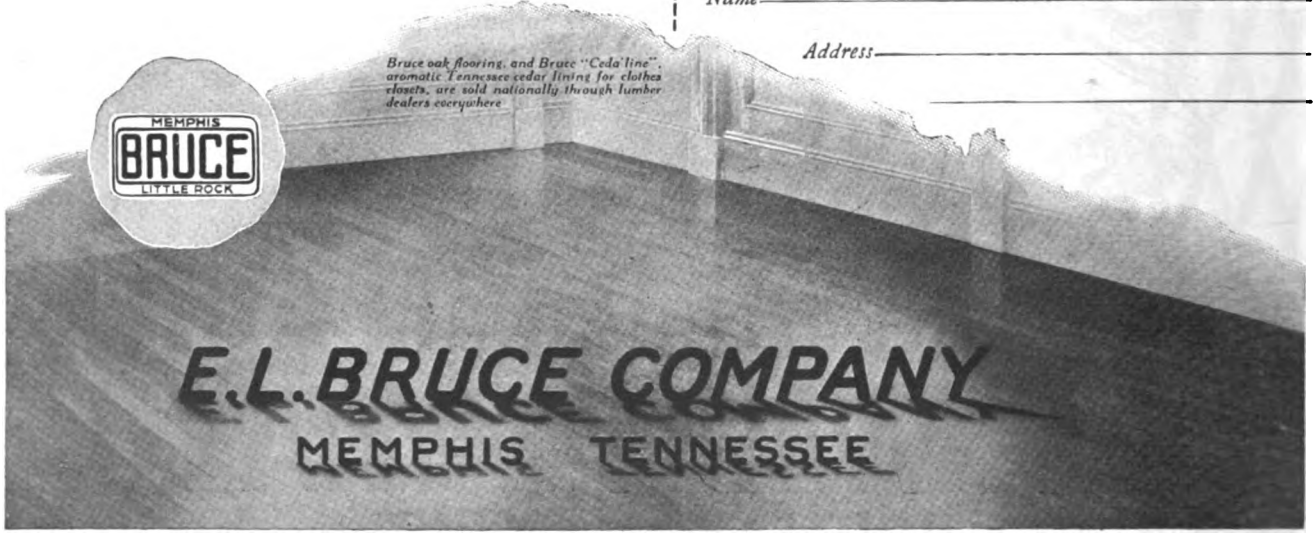
MAIL THIS COUPON, PLEASE

E. L. BRUCE CO., *Memphis, Tenn.* (3)
Please send me "Just Inside Your Threshold."

Name _____

Address _____

_____

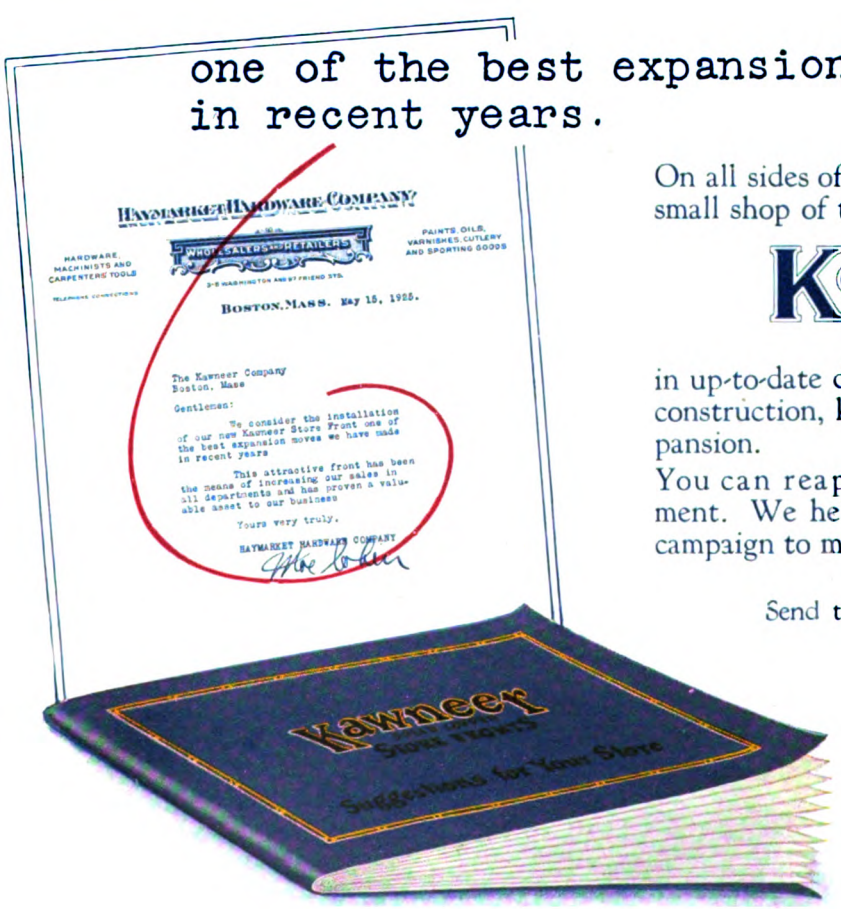


LARGEST MAKERS OF OAK FLOORING IN THE WORLD

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one of the best expansion moves we have made in recent years.


HAYMARKET HARDWARE COMPANY

HARDWARE, MACHINISTS AND CARPENTERS' TOOLS

WHOLESALERS AND RETAILERS

PAINTS, OILS, VARNISHES, CUTLERY AND SPORTING GOODS

BOSTON, MASS. May 15, 1925.

The Kawneer Company
Boston, Mass

Gentlemen:

We consider the installation of our new Kawneer Store Front one of the best expansion moves we have made in recent years

This attractive front has been the means of increasing our sales in all departments and has proven a valuable asset to our business

Yours very truly,

HAYMARKET HARDWARE COMPANY

Kawneer Store Fronts

Suggestions for Your Store

On all sides of us we see growth and expansion. The small shop of today is the big store of tomorrow.

Kawneer
SOLID COPPER
STORE FRONTS

in up-to-date designs and never varying soundness of construction, keep pace with this growth and expansion.

You can reap the benefits of this expansion movement. We help you with a nation-wide advertising campaign to merchants and architects.

Send to-day for Contractors' Design Book

The KAWNEER Company
2925 N. Front St.
Niles, Mich.

Send me free "Contractors' Design Book".

NAME .....

ADDRESS .....

CITY ..... STATE .....

Digitized by Google

BUILT TO SERVE AND ENDURE



Changing the Store Building Style of the Nation

The first hollow metal copper store front ever made was produced and installed in 1905 by KAWNEER for the F. Johnson Company, Holdrege, Nebr. This front, shown above, still serves and endures.

In twenty years, KAWNEER, through the co-operation of hundreds of contractors and architects, backed by an extensive advertising campaign, has joined hands with more than 260,000 merchants to improve their show windows and increase their sales.

KAWNEER advertising has paved the way for you with the merchants of your city. Take advantage of these opportunites created by KAWNEER advertising and secure a larger portion of this business for yourself.

See KAWNEER Store Front illustrated on preceding page



Over a quarter of a million in twenty years

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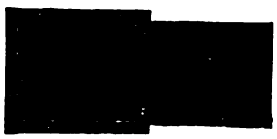
Majestic Coal Window

BREAK-PROOF ~ RUST-RESISTING

Other MAJESTIC Quality Products



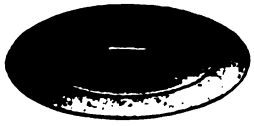
Underground Garbage Receiver



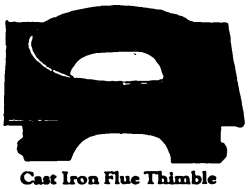
Milk and Package Receiver



Metal Basement Window



Cistern Ring and Cover



Cast Iron Flue Thimble



HOME-BUILDERS and buyers are willing to pay a little more at first, if necessary, to avoid the expense and bother soon imposed by a "cheap", unknown coal window—or frame and sash used as such. That's why the Majestic Coal Window far outnumbers all other installations combined! It protects the house permanently. And it is guaranteed break-proof and rust-resisting — made of Certified Malleable Iron, Keystone Copper Steel, with glass or pressed steel door electro-galvanized against rust. Years of national advertising—and perfect performance—have made the Majestic the accepted standard of coal window quality and value everywhere. Include it in every house you build. It will pay you.

Majestic Coal Windows come in a variety of styles and sizes with or without hopper, and with glass or pressed steel door. Write for catalog and dealer's name.

Other MAJESTIC Quality Produdts



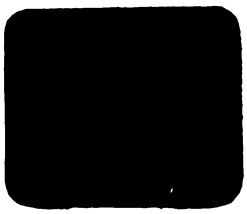
Fireplace Damper



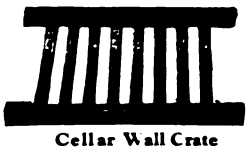
Fireplace Ash Dump



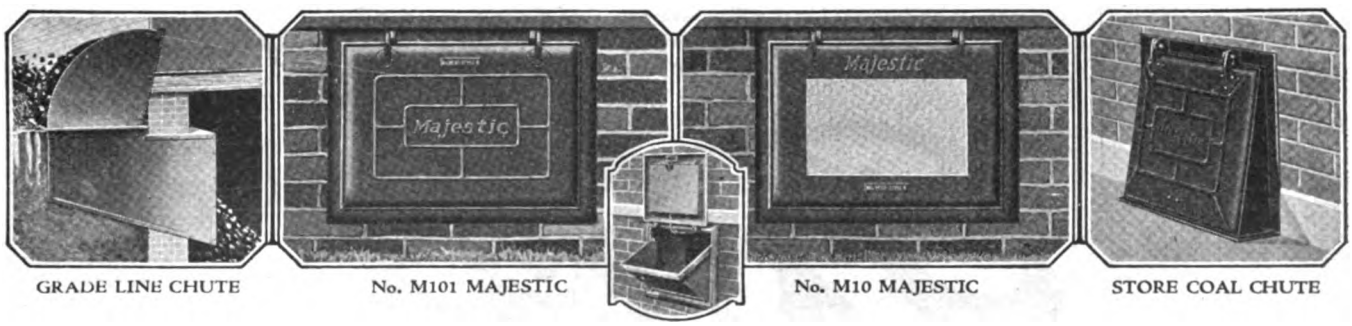
Flue Clean Out Door



Ash Pit Door



Cellar Wall Crate

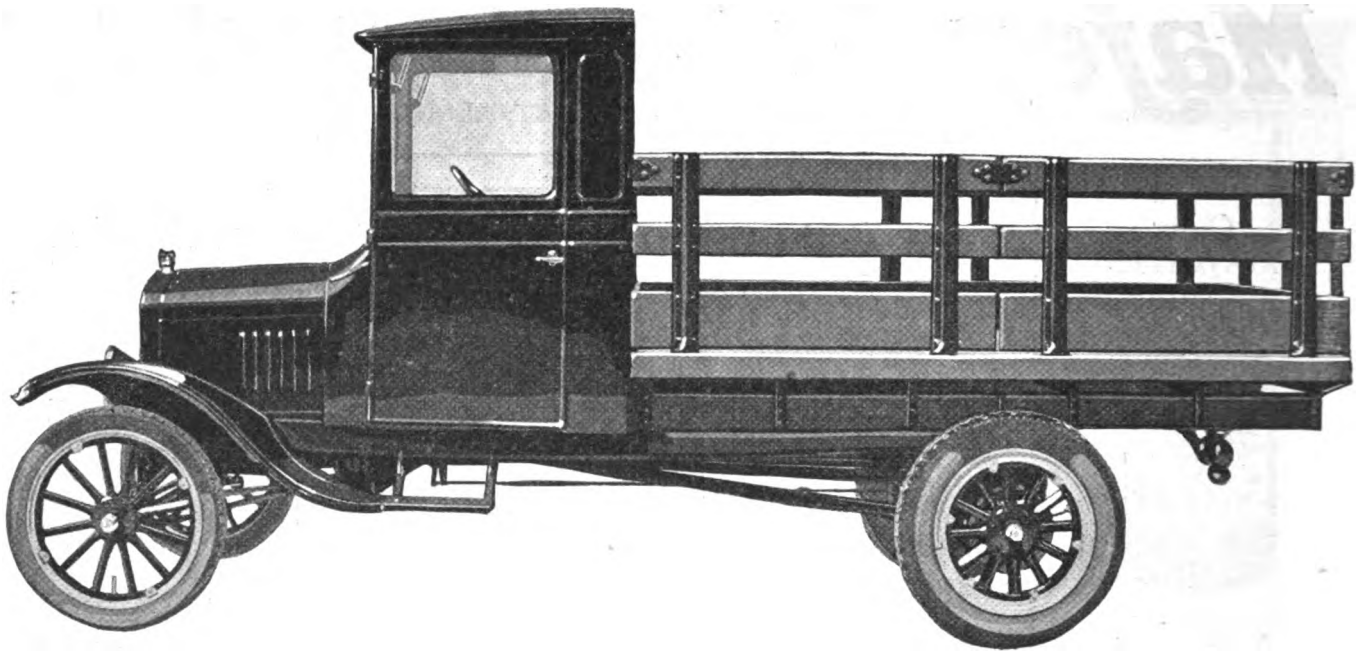


GRADE LINE CHUTE — No. M101 MAJESTIC — No. M10 MAJESTIC — STORE COAL CHUTE

THE MAJESTIC COMPANY · HUNTINGTON INDIANA

Canadian Factory THE GALT STOVE & FURNACE COMPANY, Ltd., Galt, Ont.

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Look Ahead!

The truck you now have, or the truck you now buy is the one on which you must depend for cold weather hauling and delivery.

Just ahead lies winter. Soon will come rain, snow, ice and bitter cold—factors which will affect your delivery service.

The man who uses a Ford truck to meet these conditions has a decided advantage in securing rapid and sure transportation. The starter gives a quick turn-over to the engine despite the cold; the absence of excess weight reduces skidding to a minimum; parking is simple and operation is dependable.

Look ahead now and be prepared. See your nearest Authorized Ford Dealer and plan now to put your transportation system on a Ford basis thereby continuing first class delivery service throughout the winter.

Recent improvements in Ford Car designs add greater convenience to driving and service. The action of the brakes is smoother and more positive; brake and clutch pedals are newly designed and more conveniently spaced.

Ford One Ton Truck Chassis ..... $365 f. o. b. Detroit
Ford One Ton Truck With Stake Body and Closed Cab ..... $515 f. o. b. Detroit
Starting equipment $65 extra

Ford Motor Company
Detroit

Ford

CARS • TRUCKS • TRACTORS

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SYCAMORE HEIGHTS
"Worth While Homes"
R. C. LESTER
Owner and Developer
Darien, Conn.

April 21, 1925

The Celotex Company,
101 Park Avenue,
New York City.

Gentlemen:

As I probably was one of the very first to use Celotex after it was placed on the market, I thought perhaps you would be interested to know what I think of it.

When I started the development of SYCAMORE HEIGHTS at Darien, Conn., two years ago, I was not satisfied with wood lath or wood sheathing, both being very poor quality, and walls plastered on wood lath cracking so badly as to discourage almost any builder.

I first tried Celotex in place of wood sheathing and the result was so successful that my next house was plastered on Celotex, as well as sheathed; that job was certainly a positive demonstration of the value of Celotex. In fact, I was so well pleased that the two following houses were Celotex inside and out, and the more I use Celotex the better I like it.

I feel that a Builder of Celotex Houses has put something into his job that will warrant future generations to say, "Well done, good and faithful servant."

Celotex is a builder of reputation as well as houses.

Yours very truly,

Roy C. Lester

"Celotex is a builder of reputations as well as houses"

SAYS R. C. LESTER, PROGRESSIVE DARIEN, CONNECTICUT, BUILDER

There are leaders in every busienss. Men who are quick to see and use better methods, better materials. They are the men who do their own thinking. That is why they are leaders.

Every house tells the story of its builders. There are houses built thoughtfully . . . and houses built without thought. Everyone sees them being built . . . and everyone knows who is building them.

A better way to build

Four years ago, Celotex Insulating Lumber made it practical to build houses that would really keep out heat and cold. This was recognized by leading architects as one of the greatest building improvements ever made.

And wide-awake builders were quick to accept it. R. C. Lester, Darien, Connecticut, was one of the first.

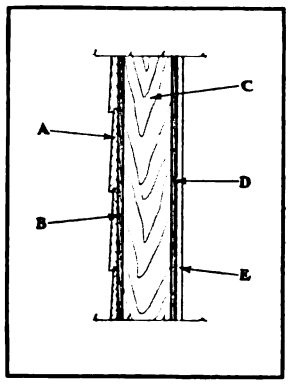
His experience with Celotex reflects that of progressive builders everywhere. Read his interesting letter.

It pays him to use Celotex Insulating Lumber for the same reasons that it would pay you to.

Celotex houses cost no more to build

You can build these better, modern houses for no more than the cost of ordinary construction. Because Celotex *replaces* and saves the cost of *five* building materials.

Used as sheathing, Celotex replaces wood lumber. It is actually stronger in wall sections than wood lumber itself. It takes the place of lath. Plaster is applied directly to the surface of Celotex, forming a much stronger wall than lath and plaster. It replaces building paper, giving better protection against wind and moisture. It takes the place of deadening felt, giving a restful quiet. *And*, wherever used, Celotex replaces any other insulating material, giving heat-stopping ability equal to the best.



A. Clapboards, brick or stucco
B. Celotex Insulating Lumber
C. Studding, or framework
D. Celotex Insulating Lumber
E. Plaster

Cross-section showing application of Celotex Insulating Lumber: (B) in outside walls as sheathing, where it replaces wood lumber and building paper, and (D) on inside walls, where plaster is applied directly to its surface.

No extra labor cost

Celotex saves construction costs, as well as material. It means fewer applications. No special help is needed. Any workman can apply Celotex—easily and quickly. The broad, light boards are easier sawed and nailed than wood lumber. A man can prepare a room for plastering with Celotex in approximately ⅓ less time than it would take to apply lath.

Free specifications

House insulation is the coming thing in the building field—and every progressive contractor and builder will be quick to get the facts. Find out more about Celotex. It will help you get business and establish your reputation for building better houses. As Mr. Lester says: "Celotex builds reputations as well as houses."

Send the coupon below for complete specifications that show you just how easily Celotex Insulating Lumber is applied, and its many advantages in building. Do it now!

THE CELOTEX COMPANY, CHICAGO, ILL.
MILLS: NEW ORLEANS, LA.

Branch Sales Offices: (See telephone books for addresses)

Boston	Detroit	Miami	New York	San Francisco
Cleveland	Kansas City	Milwaukee	Philadelphia	Seattle
Dallas	London (Eng.)	Minneapolis	Portland, Ore.	St. Louis
Denver	Los Angeles	New Orleans	Salt Lake City	St. Paul

Canadian Representatives: Alexander Murray & Company, Limited
Montreal Toronto Halifax Winnipeg Vancouver

CELOTEX
INSULATING LUMBER

"THERE IS A USE FOR CELOTEX IN EVERY BUILDING"

Mail this coupon for free book

The Celotex Company, Dept. 270
645 N. Michigan Avenue, Chicago, Illinois

Send specifications and more information about Celotex.

Name.....

Street.....

City..... *State*.....

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Horse Head Zinc conductor pipes, eaves-troughs, gutters, and roofing are for moderate priced homes as well as for pretentious dwellings. To the owners of both, they make the same appeal —long life, low cost, and uninterrupted service.

Zinc

Horse Head Zinc is durable—it will last a lifetime. Being durable, its first cost is the only cost. No repairs; no replacements.

And the first cost is surprisingly low—lower than that of any other comparable permanent metal.

Horse Head Zinc conductor pipes, eaves-troughs, gutters, and fittings in all standard shapes and sizes are always available through your local sheet metal contractor.

The New Jersey Zinc Company

Established 1848

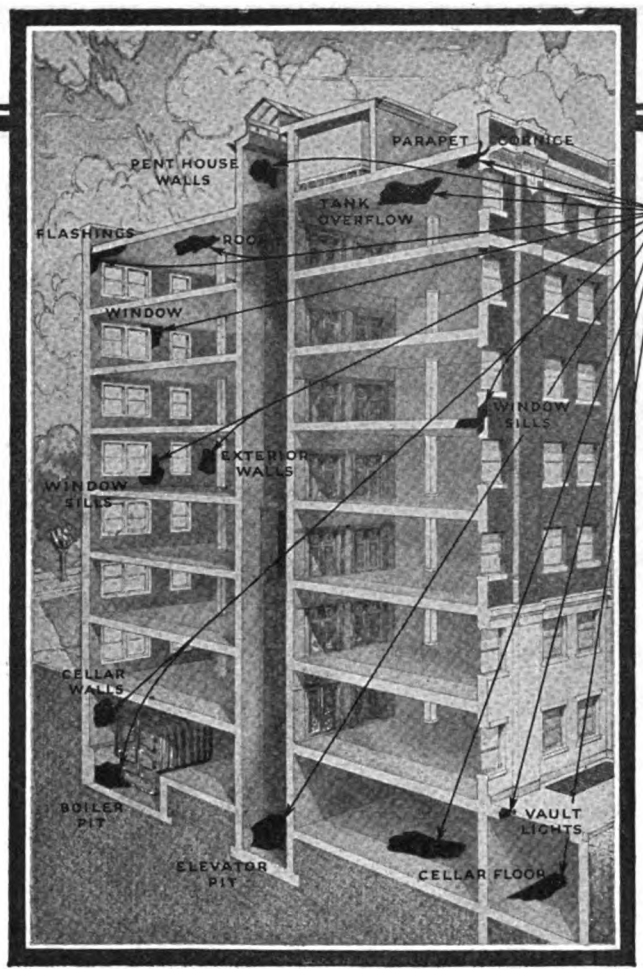
Products Distributed by

The New Jersey Zinc Sales Company

160 Front Street, New York City

CHICAGO · PITTSBURGH · CLEVELAND · SAN FRANCISCO

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LEAKS

Every spot a leak — every leak a mark of danger.

Guard against leaks! Their toll is tremendous!

A Few GF Waterproofing Products

GF Integral Waterproofing Paste (GF 10). Mixed with the gauging water to waterproof mass concrete.

GF Membrane Materials. For walls and surfaces under hydrostatic pressure.

GF Transparent Waterproofing (GF 100). A brush coating for waterproofing concrete, stucco and masonry surfaces.

GF Cement Paint (GF 102). For decorating interior and exterior surfaces of brick, concrete, tile and stucco.

GF Damp-proofing Coating (GF 200) A brush treatment for masonry surfaces to be plastered.

GF Plastic Cement (GF 250). A plastic waterproof cement.

GF Crystalrox (GF 145). For hardening and dust-proofing new and old concrete floors.

GF Cement Accelerator (GF 12). Quickens setting of cement and prevents freezing of mixture.

EVERY year leaks take a tremendous toll from concrete buildings. *And it is absolutely unnecessary!* GF Waterproofing Paste (GF 10) will make concrete impervious to water—dampness—seepage.

Merely dissolve GF 10 in uniform proportions in the mixing water and the concrete becomes dense and permanently waterproof. Also it positively prevents spalling and cracking.

GF Waterproofing Paste costs very little. It adds no supervision or labor to the cost of construction. Certainly it offers worthwhile protection to any building owner—avoids all the expense that can be laid at the door of moisture.

You will find the "Waterproofing Handbook" full of usable information on the latest and most approved waterproofing methods. A copy will be sent you on request.

THE GENERAL FIREPROOFING BUILDING PRODUCTS
Youngstown, Ohio

Branches: New York · Chicago · Philadelphia · Boston · Cleveland · Los Angeles · St. Louis · Omaha · Kansas City · Minneapolis · Milwaukee · San Francisco · Syracuse · Atlanta · Mexico City
Export-Dept.: 90 West Street, New York City · *Dealers everywhere* · *Cable Address:* "Firegen-New York"

GF Waterproofings And Preservative Products

The General Fireproofing Building Products
Youngstown, Ohio

Please send me, gratis, a copy of the new "GF Waterproofing Handbook."

Name .....

Street No. .....

City ..... *State* .....

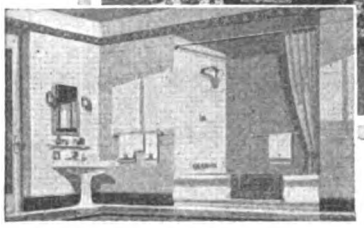
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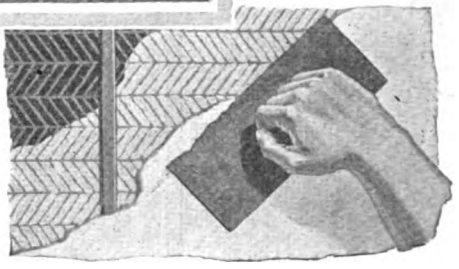
Kitchen walls of Sheet Steel, painted or enameled, are easy to keep always immaculate and sanitary



Enduring protection and architectural beauty are combined in this roof of Sheet Steel in the form of the popular Spanish Mission Tile



Beauty and sanitary cleanliness in the bathroom are insured by walls of Sheet Steel, painted or enameled in white or delicate tints



Metal lath, made from Sheet Steel, makes durable walls and ceilings, with maximum fire protection and elimination of cracks in plaster

The Public Is Asking for Sheet Steel

PEOPLE naturally associate the idea of steel with the idea of enduring strength. "It's steel"—what more need you say to convey the thought of strength and durability?

Now the public is learning to associate the thought of Sheet Steel with the thought of beauty. And in fine homes Sheet Steel is a desired material for roofing, for walls of kitchens and bathrooms and for many other uses in construction, equipment and furnishing.

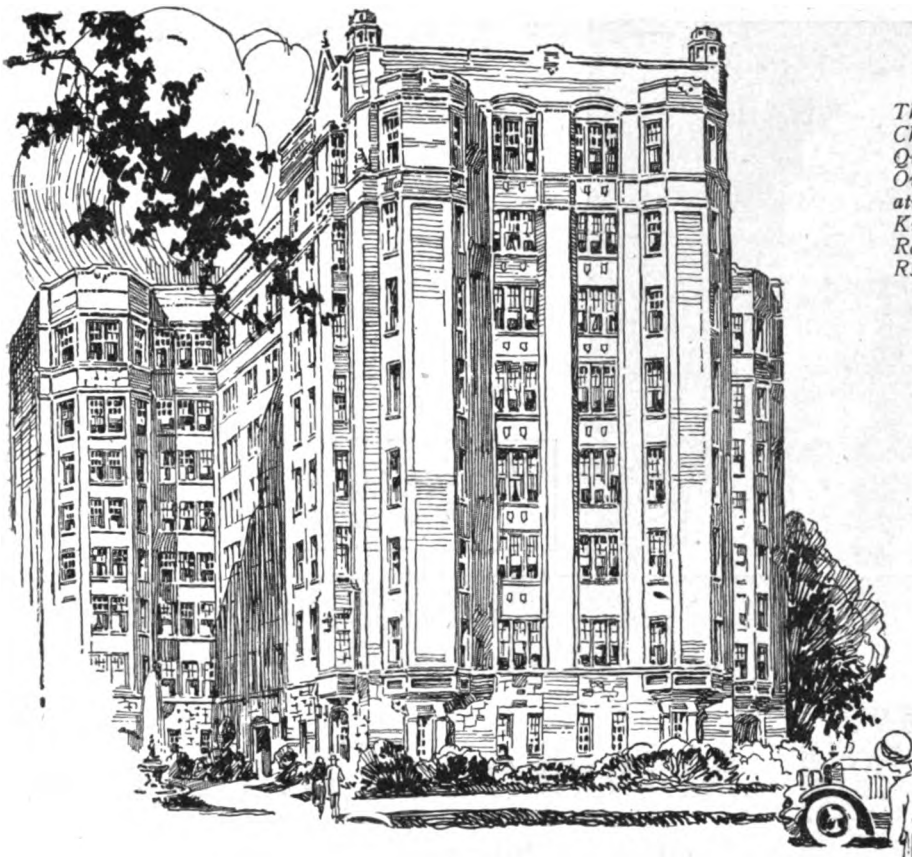
Consider these qualities of Sheet Steel. It is easy to handle, to form and to apply. It is highly fire resistant. Its sanitary cleanliness makes instant appeal to the careful housekeeper. And when enameled in white or delicate tints, its beauty is permanent.

The home buyer of today demands a roof that not only insures lasting protection but that contributes to the architectural beauty of the home. It is for this reason that roofs of Sheet Steel, in the form of the Spanish Mission Tile, are coming into such general public favor. Modern methods of finishing provide lasting beauty and a wide variety of roofing effects.

Every architect and builder will be interested in the illustrated booklet, "The Service of Sheet Steel To The Public." Write for a copy, free.

SHEET STEEL
TRADE EXTENSION COMMITTEE
OLIVER BUILDING
PITTSBURGH PENNSYLVANIA

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The Devonshire, 6334 Sheridan Road, Chicago. Architects, McNally, Quinn & Company, Chicago. Owner, Devonshire Building Corporation, Chicago. Each of Twenty-eight Kitchens equipped with Reliable Gas Ranges with Lorain Oven Heat Rsegulator

Twenty-eight RED WHEELS

TWENTY-EIGHT beautiful apartment-kitchens furnished with Gas Ranges equipped with Lorain Oven Heat Regulators. Twenty-eight more dwelling places for satisfied tenants—their satisfaction due, in large measure, to the business judgment of those responsible for the specification of kitchen-equipment.

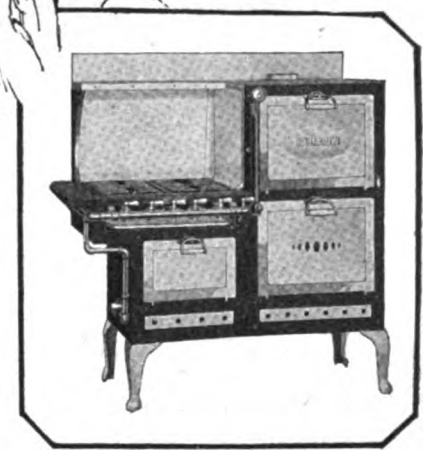
Nothing could add to the convenience and efficiency of the kitchen—nothing could increase the health and happiness of the household—nothing keep cooks contented, in the years to come, as the famous Lorain RED WHEEL.

The Lorain is a thermostat that measures and automatically maintains the heat of the oven at any desired temperature. It is built into the stove. It saves time, food, labor and fuel. It simplifies every oven-cooking problem for the beginner or experienced cook.

The Lorain Oven Heat Regulator is the original oven heat regulator—the *only* oven heat regulator manufactured and *guaranteed* by the same company that makes the stoves of which it is a part.

These famous makes of Gas Ranges are equipped with the Lorain: Clark Jewel, Dangler, Direct Action, New Process, Quick Meal and Reliable. You can always tell a genuine Lorain Oven Heat Regulator by the little RED WHEEL.

Lorain-equipped Gas Ranges are made in every approved size, style and finish suitable for houses, schools, churches, apartments—any building where cooking is to be done. For specific data, see 19th edition, Sweet's Catalog, pages 2497-2506 inclusive. Additional information sent on request.



Type of Lorain-equipped Reliable Gas Range installed in kitchens of The Devonshire, Chicago.



One easy turn of the Lorain Red Wheel gives the housewife a choice of any measured and controlled oven heat for any kind of oven cooking or baking

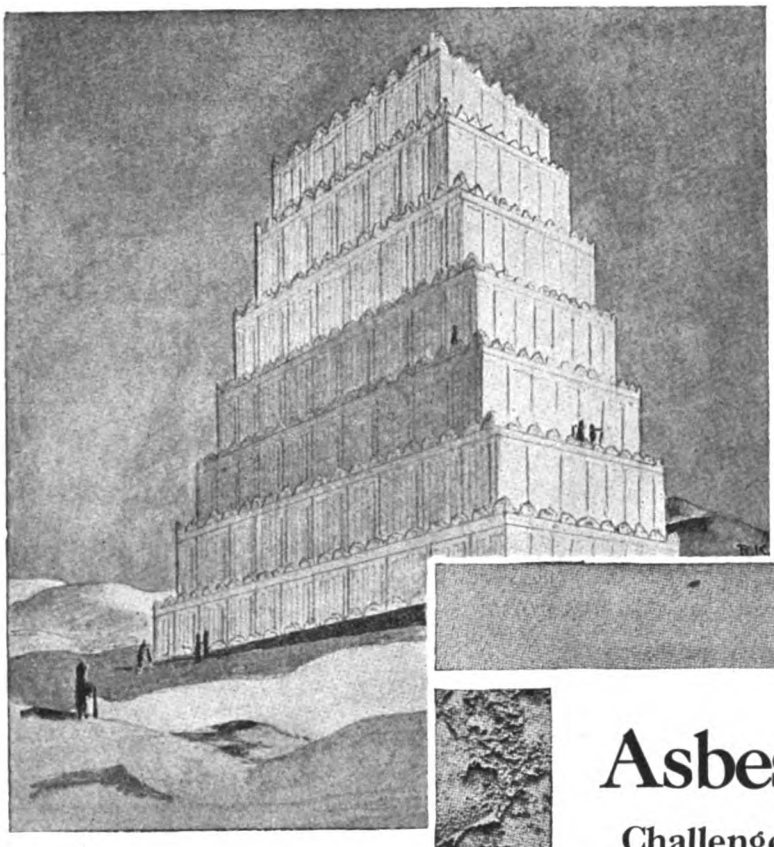
Unless the Regulator has a RED WHEEL it is NOT a LORAIN

AMERICAN STOVE CO., 222 Chouteau Ave., St. Louis, Mo.

Largest Makers of Gas Ranges in the World

LORAIN OVEN HEAT REGULATOR

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Assyrian Ziggurat at Khorsabad

The Story of STUCCO

Seven hundred years B. C., Sargon, the great Assyrian, built his fortress-town of Dur-Sharrukin (now Khorsabad) and included in it a Ziggurat or stage-tower similar to the Tower of Babel. Largely built of clay, the interior and exterior walls of the whole great undertaking were in many cases faced with stucco, of which much remains. Stucco, the ancients found, was not only extraordinarily durable, but formed an ideal base for the polychrome decoration and frescos in which earlier civilizations delighted.

MULLER ASBESTONE GUARANTEED PRODUCTS TRADE MARK

(10)

Asbestone Quality

Challenges Successfully Every Test that Time Imposes

For nineteen years *Asbestone* Stucco has demonstrated its *superior quality*. Architects, contractors and builders show it preference because of its uniformity, durability, tensile strength and elasticity.

Made by the largest manufacturers in this industry and the only stucco which is completely standardized.

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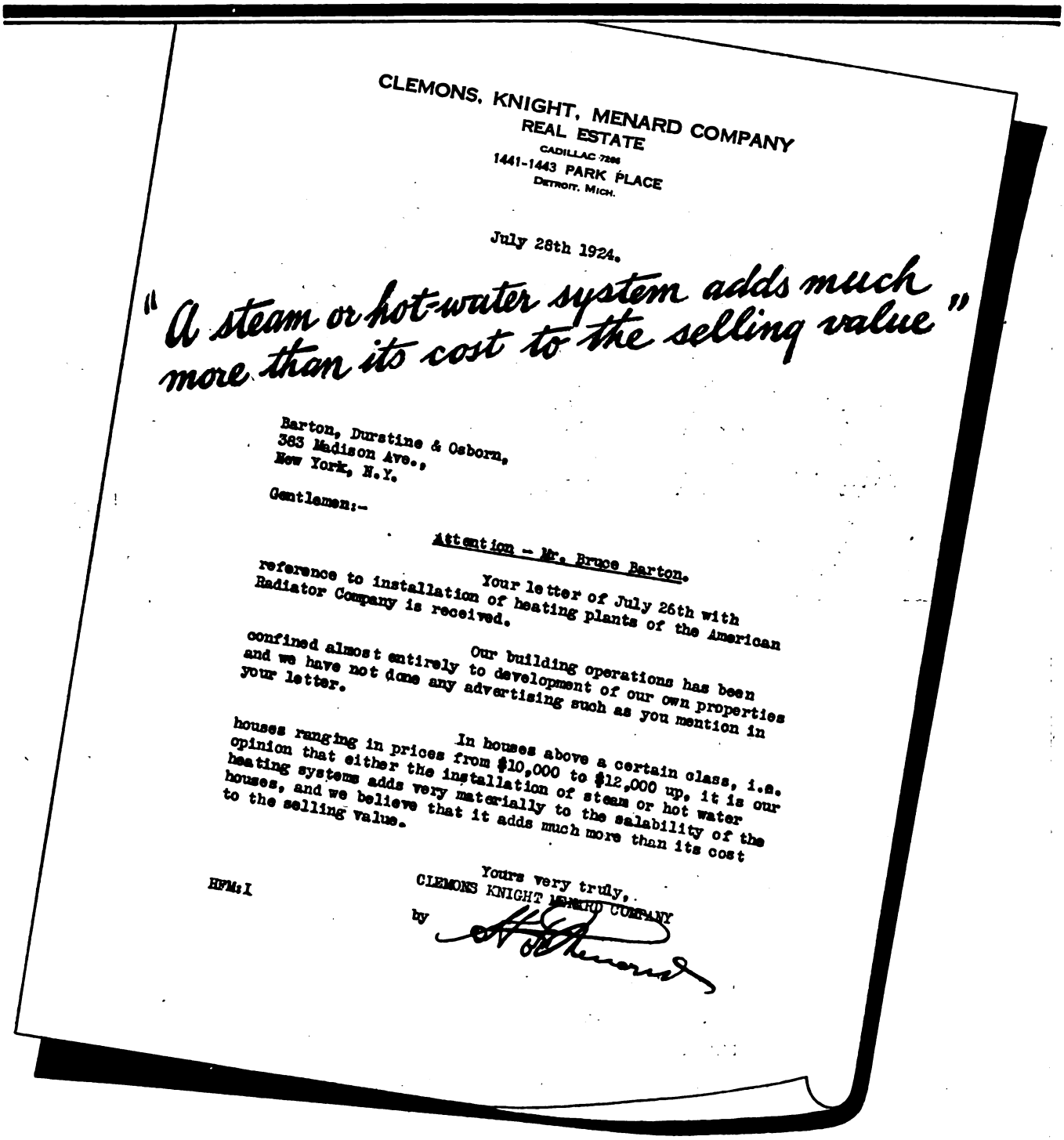
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REAL ESTATE
CADILLAC 7288
1441-1443 PARK PLACE
DETROIT, MICH.

July 28th 1924.

"A steam or hot-water system adds much more than its cost to the selling value"

Barton, Durstine & Osborn,
383 Madison Ave.,
New York, N.Y.

Gentlemen:-

Attention - Mr. Bruce Barton.

Your letter of July 26th with reference to installation of heating plants of the American Radiator Company is received.

Our building operations has been confined almost entirely to development of our own properties and we have not done any advertising such as you mention in your letter.

In houses above a certain class, i.e. houses ranging in prices from $10,000 to $12,000 up, it is our opinion that either the installation of steam or hot water heating systems adds very materially to the salability of the houses, and we believe that it adds much more than its cost to the selling value.

Yours very truly,
CLEMONS KNIGHT MENARD COMPANY
by

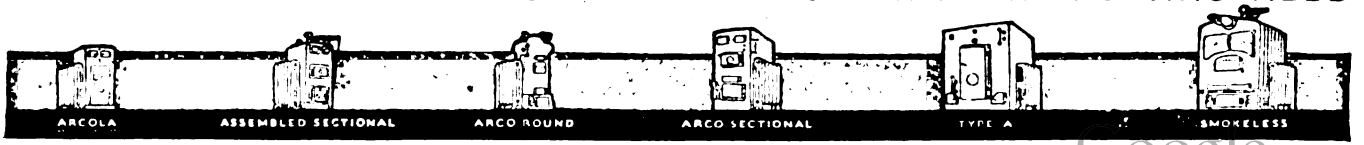
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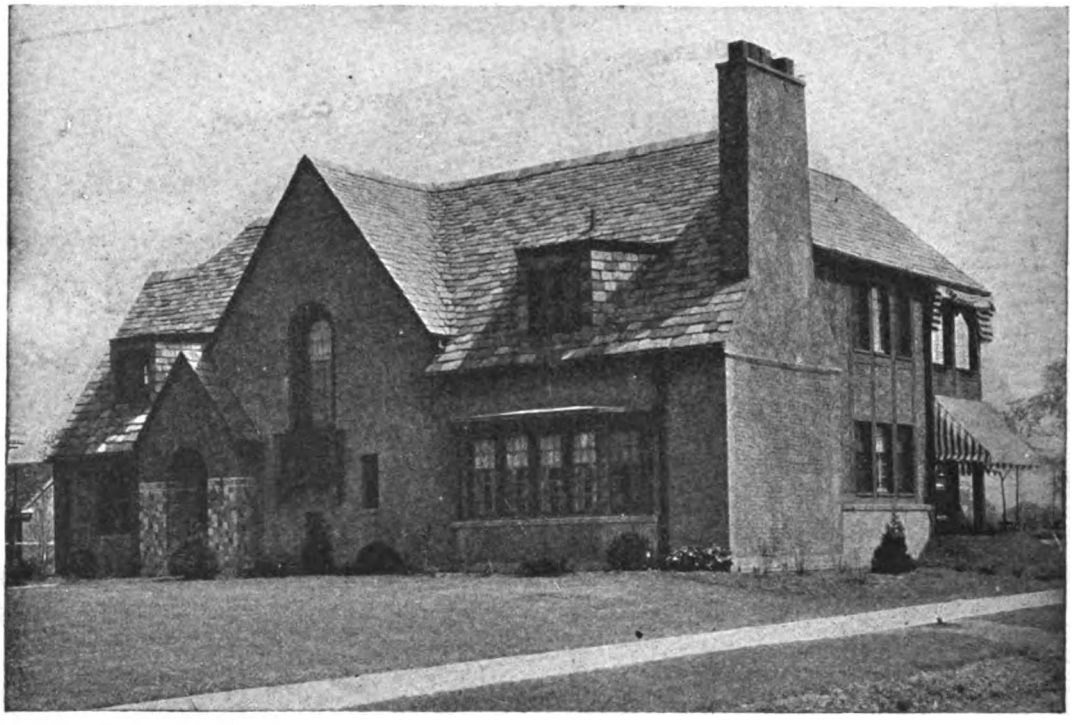
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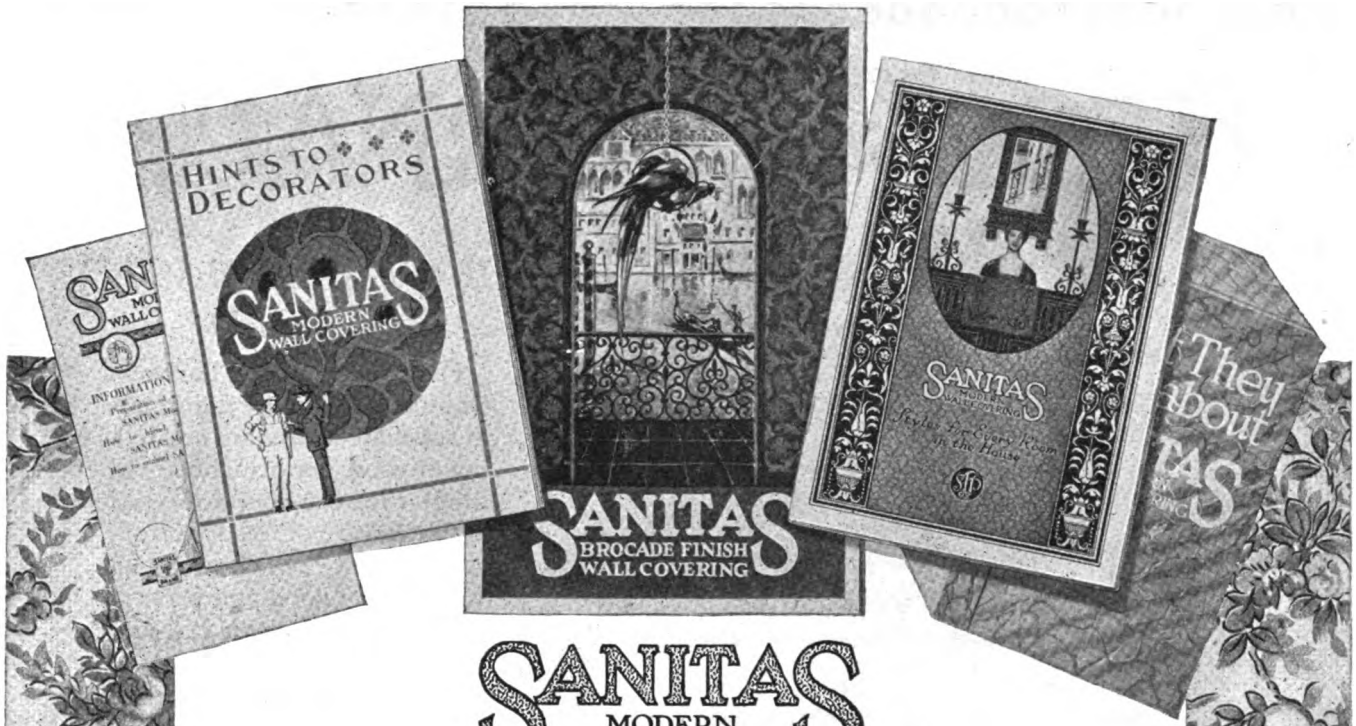
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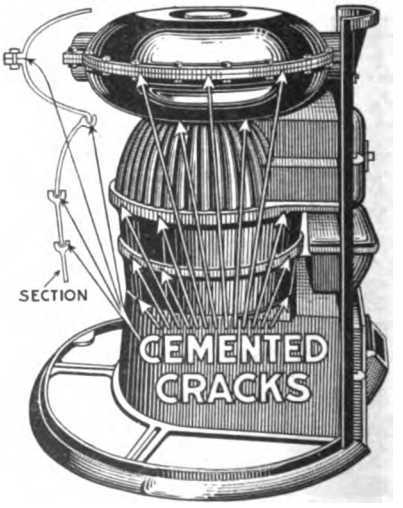
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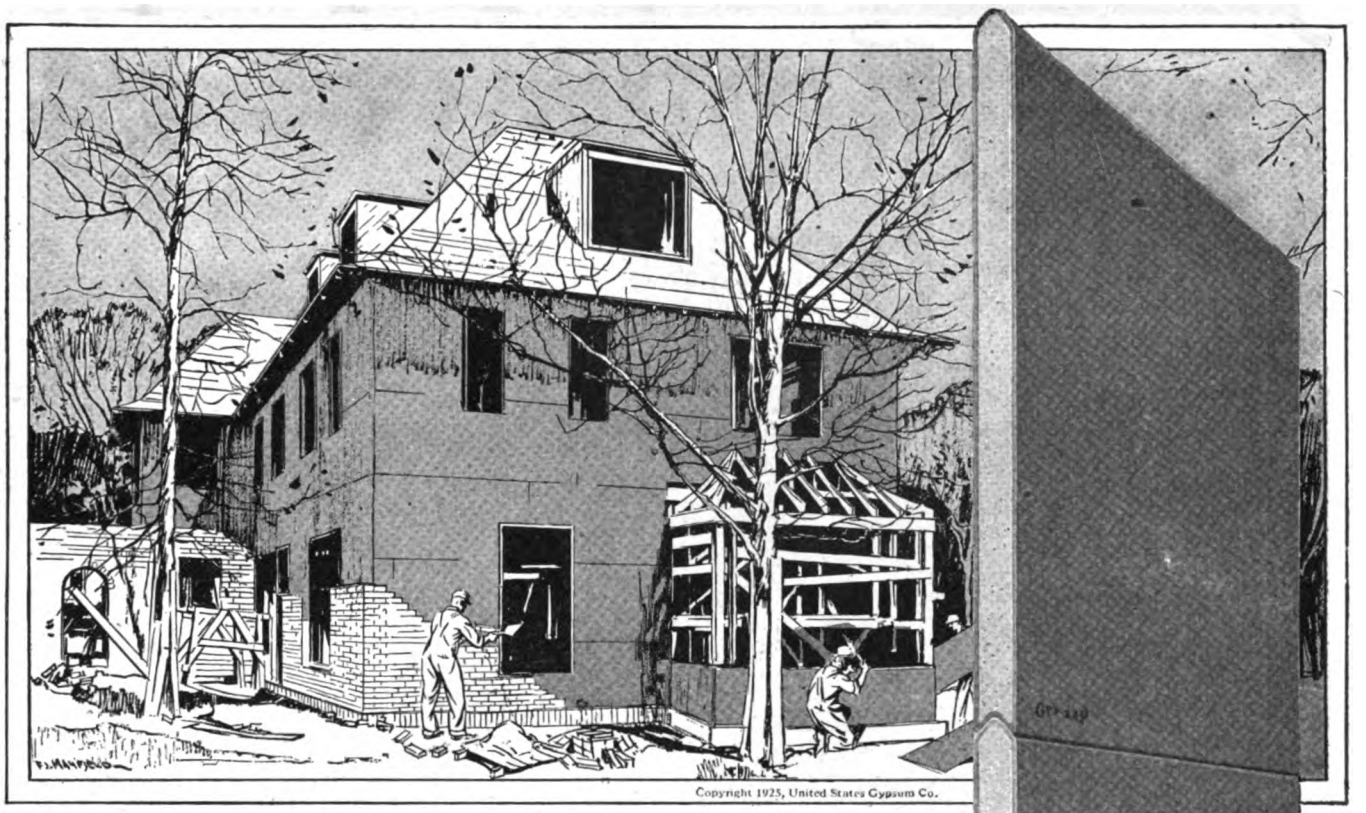
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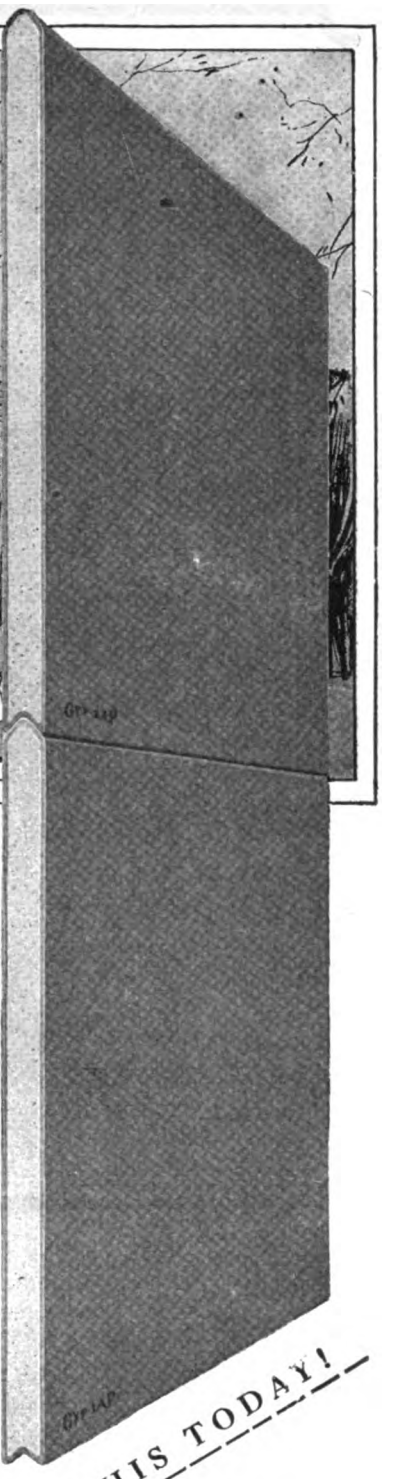
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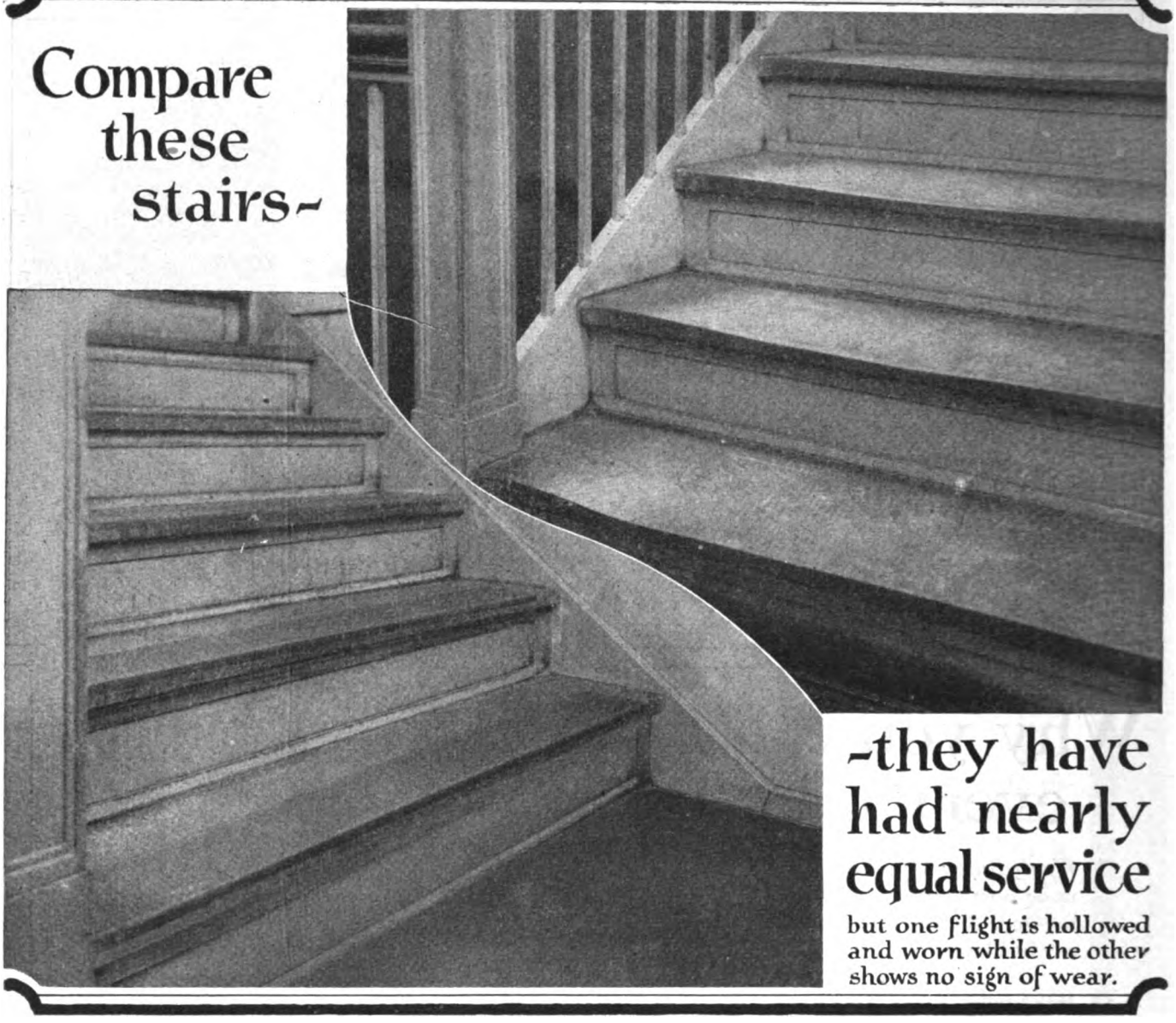
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Compare these stairs-



-they have had nearly equal service

but one flight is hollowed and worn while the other shows no sign of wear.

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These two stairways are in the administration building of a large manufacturing plant. As nearly as can be estimated they have had approximately equal wear. (Well over a million people have used each.)

The stairway with nosings of Alundum Stair Tile (lower picture) has no sign of worn hollows. A straightedge laid along the nose of the treads shows them to be as true and level as when the tile was installed. The treads on the other stairway are badly hollowed and worn.

The stairway using Alundum Tile is safe (slip-proof) and without grooves or corrugations to cause tripping.

NORTON COMPANY, Worcester, Massachusetts

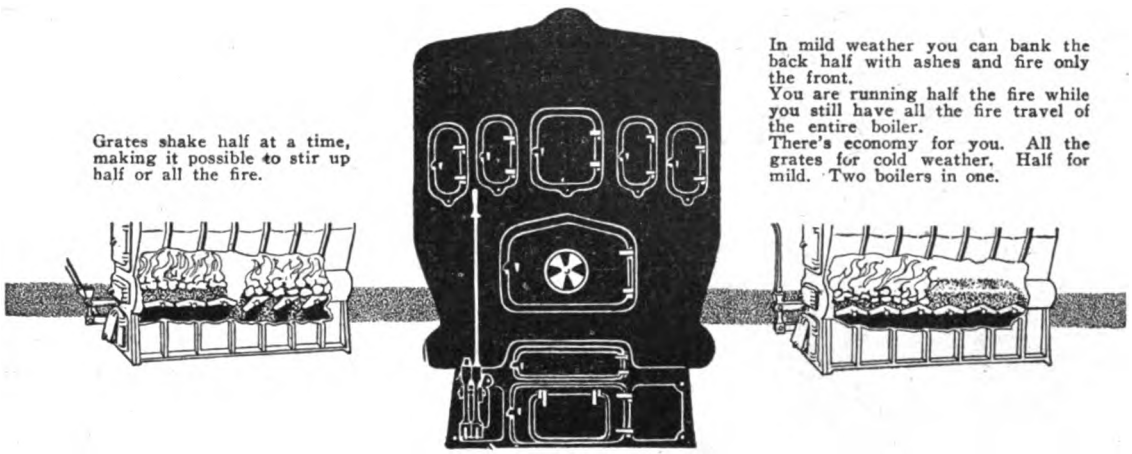
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NORTON FLOORS

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RUNNING a big boiler when there's only work for a small one, eats up too much coal.

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This library of hundreds of catalogs, booklets, etc., has cost him nothing beyond the price of a few postage stamps.

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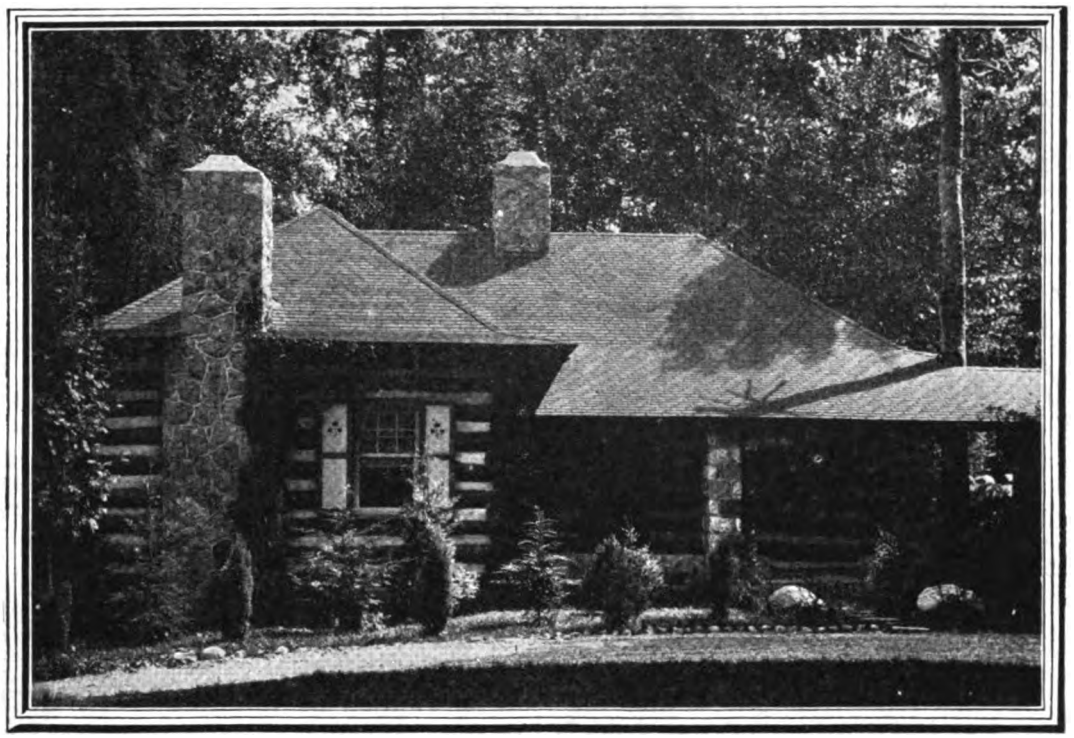
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Two carloads of Winthrops *roofed the summer home of Armour*

When Arthur Heun, Chicago architect of fine residences, planned "The Timbers," summer home of J. Ogden Armour, he specified Winthrop Tapered Asphalt Shingles. Two carloads were used.

Our picture shows only a small portion of the residence, a rambling, airy, log structure, covering an area perhaps 150 by 300 feet in the midst of a forest.

The thick butts — like those of the old fashioned wood shingle — cast attractive shadow lines. The color fits into the woody scene. The shingles harmonize with the structure. That's beauty.

But wear had to be considered, too, for the winters at Traverse City, Michigan, are rigorous. Here again the thick butts are the deciding factor. They lie flat and snug against the roof. They double the wearing thickness where all wear comes—on the exposed portion.

The thick butts are built up of extra coats of everlasting asphalt on both sides of the extra heavy felt core. The crushed slate surface is non-fading.

Winthrop Tapered Asphalt Shingles give long service under hard wear. The superintendent of this Armour home told us when we took our photograph that on the power house—which is kept going through the winter—ice sometimes collects to the thickness of ten inches and is chopped off with axes. Yet the power house roof looks as good as this section on the residence and both have been on for more than five years.

Beauty and wear characterize Winthrops. They are selected where money is not a factor. They are chosen where economy is all important. Money cannot buy better. Economy can make no better choice.

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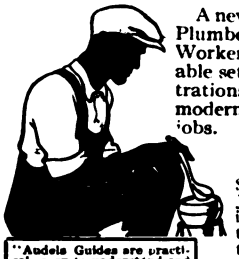
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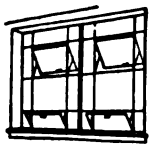
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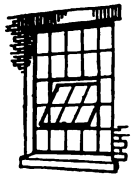
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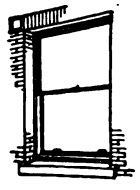
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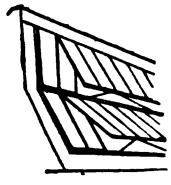
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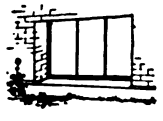
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These windows make balanced ventilation automatic. When the lower sash is opened, the upper sash lowers an equal distance, thus providing an entrance for fresh air and an exit for exhausted air at the same time.

Basement



Lupton basement windows have transformed the lower part of the house to a bright, airy place. They give practically double the light of old-fashioned wood windows, and never stick, rattle or warp. Made in four standard sizes.



Residence of Ralph H. Knode, Ardmore, Pa. Thomas, Martin & Kirkpatrick, Architects

Lupton Steel Casements *make beautiful homes*

THERE is something about the trim, well-proportioned look of outward-swinging steel casements that makes the exterior of the house most inviting. The charm and home-like comfort of casements are even more apparent from the inside.

The appeal of these windows to home-owners is but one reason why the progressive contractor uses them. He finds that Lupton Casements are easy to buy and easy to handle. And Lupton Casements quicken the profitable sale of any property because they mark a house or apartment as distinguished and modern. They bring repeat orders, too.

Lupton branch offices, agents, and dealers everywhere will gladly supply you with detailed information. Call upon them.

DAVID LUPTON'S SONS COMPANY
2249 E. Allegheny Avenue, Philadelphia, Pa.
Branch Offices in Principal Cities

LUPTON
STEEL WINDOWS EVERYWHERE

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Bestwall comes in panels three-eighths of an inch thick and four feet wide by six to ten feet long. It is quickly nailed to studs and joists, or to old wall materials. When the joints are filled with plaster, it presents smooth, even walls and ceilings, ready for any type of decoration

Genuine Bestwall
is readily identified by its cream colored surface

BEAVER PRODUCTS

for WALLS	*for* ROOFS
Beaver Fibre Wall Board	Slate-surfaced Shingles and slabs to meet every requirement of color and design
Beaver Tile Board	
Beaver Bestwall	
Beaver Gypsum Lath	Special Re-roofing Shingles
Beaver American Plaster	Slate-and Smooth-surfaced Roll Roofing, in weights and finishes for every use
Beaver Gypsum Block	
Beaver Architectural and Industrial Varnishes and Enamels	Built-to-order Roofs
	Roof Paints and Cement

A *Plaster* Wall Board
of amazing strength

STRENGTH is a vital quality in plaster wall board. And it is an outstanding quality of Beaver Bestwall.

Basically, this exceptional strength is in the rock-like gypsum plaster—properly mixed, correctly set. But, strange as it may seem, the durability of a plaster wall board is not found entirely in the plaster core. As in a baseball, the strength of the core is greatly added to by the *cover*, the *casing*. In Beaver Bestwall the covering is a tough, durable *fibre* product, made by Beaver and found only in Beaver Bestwall. And Beaver, as you know, has for years been the leading manufacturer of famous Beaver Fibre Wall Board and other fibre products.

It is within your own power to know the marked advantages of this exceptional strength, and also the many other refinements of Beaver Bestwall.

Test it—compare it

What *are* the tests that plaster wall board must undergo? First of all, it must withstand rough treatment. It must not chip or warp. Jarring of the building should not crack or crumble it.

Test and compare the strength of a sample of Beaver Bestwall. Note that it can be broken only with greatest difficulty—and notice *why* it is stronger. A broken sample reveals not only a core of perfectly set rock-like gypsum plaster, but also the toughness of its inseparably bonded fibre surfacing. This explains the greater rigidity of Bestwall.



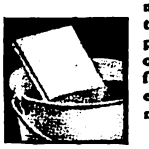
Permanency test

But strength is only one requirement. How easily—how artistically can it be decorated?

The answer is in the creamy fibre covering—the same covering that gives such amazing strength. Note its non-porous appearance. That shows it is *primed* and *calendered*. Rub it briskly. It refuses to become "woolly." This is the ideal surface for painting or tinting—a non-absorbent surface that saves dollars in painting costs. Moreover, it is a surface from which wall paper can be readily removed.



Surface test



Moisture test

And don't forget that your walls will be frequently subjected to moisture within the next five years. Observe that a sample of Beaver Bestwall soaked in water does not swell and that it is in no way affected by water.

There may be a fire within the next five years. A blow torch, applied for a long period to Bestwall, demonstrates its fireproof qualities. It is approved by the National Board of Fire Underwriters.



Fire test

Is the future of the home that you have worked, saved and planned for worth a few simple tests? See the lumber or building material dealer in your town or mail the coupon today for a free sample.

BEAVER BESTWALL
THE SUPERIOR PLASTER WALL BOARD

Mail this Coupon →

THE BEAVER PRODUCTS CO., Inc., Dept. N-10, Buffalo, N.Y.
(or) Thorold, Canada (or) The Beaver Board Co., Ltd., 133-136 High Holborn, London, Eng.

Gentlemen: Please send me a sample and literature describing your Beaver Bestwall plaster wall board. I am also interested in the other Beaver Products I have listed below.

.....

Name..... Address.....

City..... State.....

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california PINE

California White Pine (trade name) California Sugar Pine



Fine, delicate grain and soft, easy cutting, non-splitting texture permit cutting sharp, clear profiles and edges.



Grain of California Pines will not "raise" to disfigure or cause cracking or chipping of paint or enamel surfaces.



Soft texture saves time in cutting and fitting the locks and butts, thus effecting great savings in cost of installation.

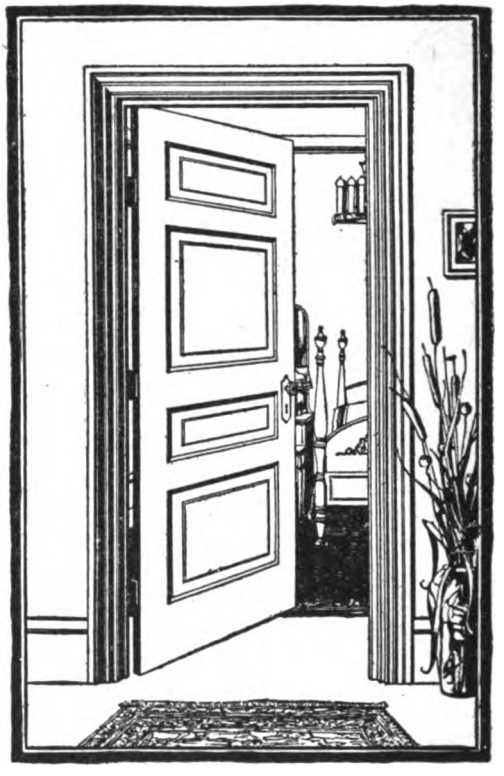
"The Great American Door"

SOMEONE has referred to doors made of California Pine as "the great American door," because so many of America's well-built homes have doors of this fine wood.

The large sash and door manufacturers make extensive use of California Pine. They say that no other woods meet so well the requirements for door service and window-sash service—the two most exacting general uses to which any soft wood can be put.

One of the largest of these manufacturers whose doors are specified by architects and builders in every section of the country states in his book on doors:

". . . . doors made of solid California Pine, a soft, close-grained, weather-resisting wood. It has more of the qualities of the old Northern Pine than any wood being cut today in sufficient quantities to provide for the production of soft wood doors. It is a wood suitable for paint or stain and in our judgement is the best wood from which to make solid doors. . . . Large panels usually swell, shrink or check,



but these are made from carefully selected California Pine and true economy results in the purchase of the better article."

That California Pine Doors meet the most exacting service requirements is proved by the fact that more than 5,000,000 such doors are installed every year in American buildings.

If you have not received a set of our Information Sheets on California Pine, let us send them to you. You are also invited to correspond with our Wood Technologist, formerly with U. S. Government Forest Products Laboratory at Madison, Wisconsin, and now connected with this association.

California White and Sugar Pine Manufacturers Association

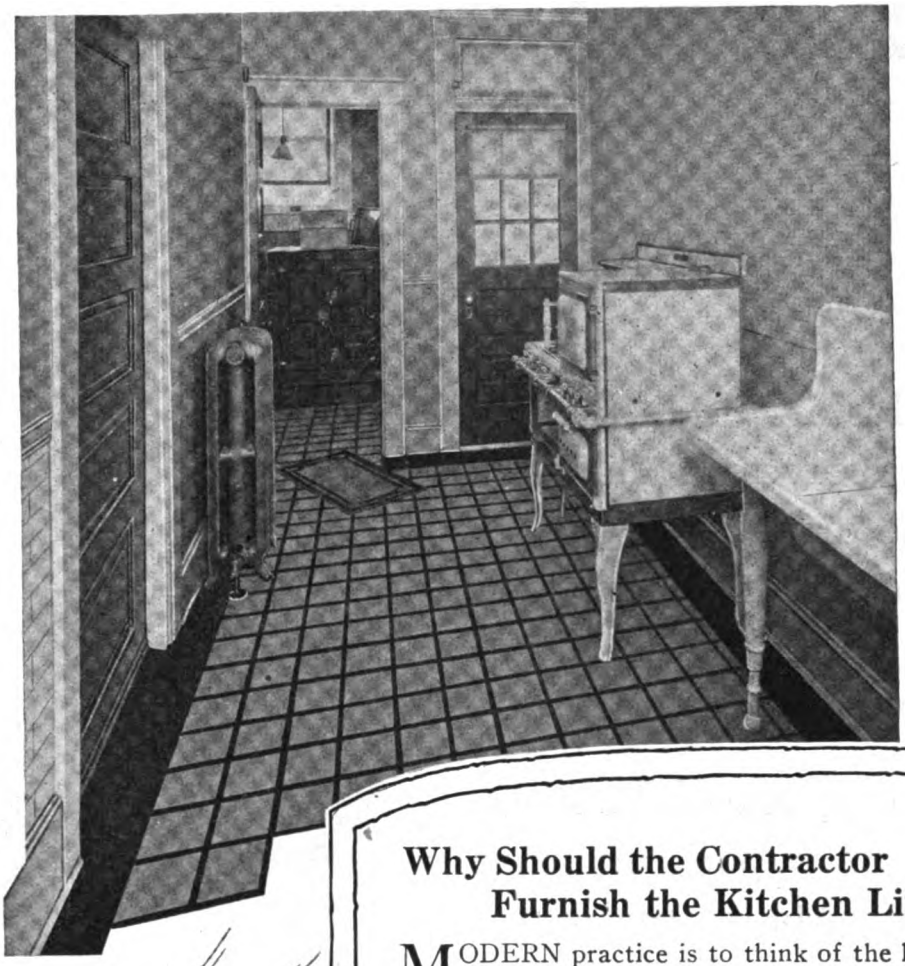
657 Call Building · San Francisco

Also producers of CALIFORNIA WHITE FIR, CALIFORNIA DOUGLAS FIR AND CALIFORNIA INCENSE CEDAR

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Armstrong's Linoleum

for Every Floor in the House



Look for the CIRCLE A trade-mark on the burlap back



This floor is Armstrong's black and gray inset tile inlaid linoleum (No. T42), with a border of plain black linoleum. It is one of 53 such floors installed by the Frank Novak Company in a recent building operation in Baltimore, Md. Each linoleum floor was cemented to a wood underflooring over a lining of deadening felt.

For Specifications and Laying Instructions write for "Armstrong's Linoleum Floors," file-size folder, or see Sweet's Architectural Catalog.

Why Should the Contractor Furnish the Kitchen Linoleum?

MODERN practice is to think of the linoleum for the kitchen, pantry, and entry, as the floor itself—a structural part of the house. It is often possible to save considerable floor expense by cementing linoleum over a deadening felt lining to an inexpensive underflooring when the house is built.

Installing the linoleum when the house is built insures a more serviceable and a better appearing job—no furniture or fixtures to move or fit around, no seams left open to catch dirt and moisture.

Linoleum is such a practical and handsome floor that it is appreciated by every housewife. Its smooth, seamless surface makes it indispensable where cleanliness and sanitation are so necessary, and its quiet resilience makes it a comfortable floor to work on. These features, combined with its remarkable durability, make linoleum a most economical floor.

The owner gets 100% service and appearance in his linoleum floors if they go in when the house is built.

Armstrong Cork Co., *Linoleum Division*, Lancaster, Pa.

B-21

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THE

MASTER

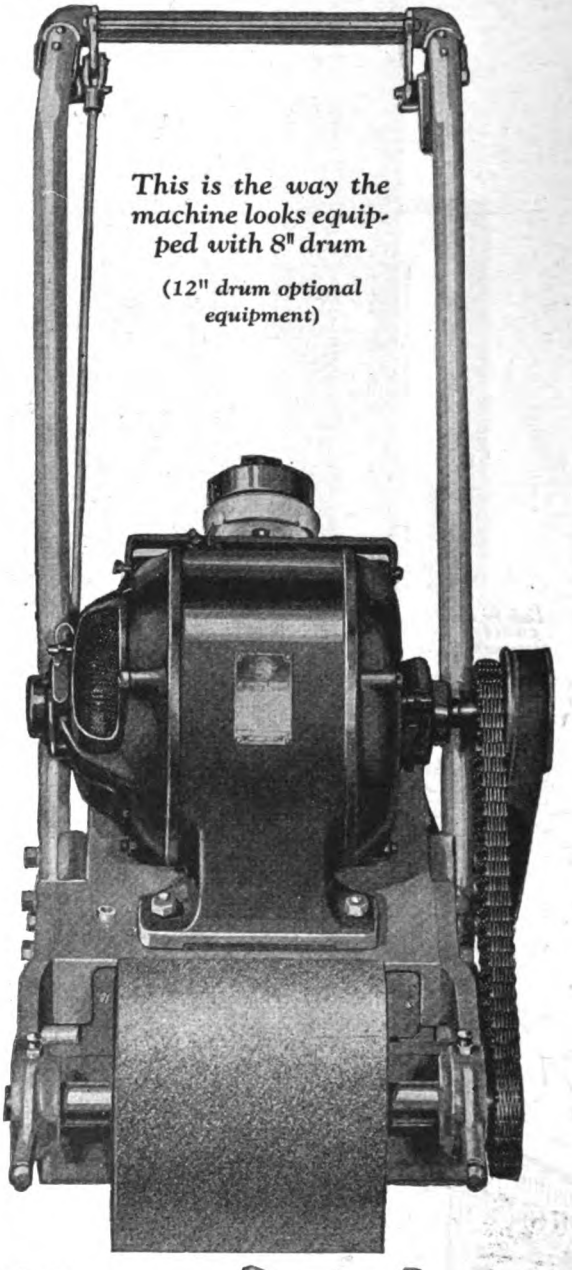
Is

FASTER

The Master Floor Sander drum revolves much faster than the drum of any other floor sander on the market. More speed means more work and greater profits.

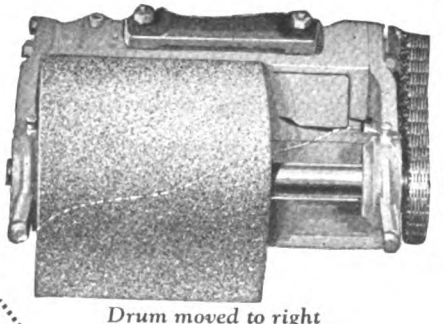
This is only one of the many points of superiority that make the Master the fastest —the most easily operated and the most profitable sander on the market today.

Master Woodworker Mfg. Co.
612 Brush Street, Detroit, Michigan

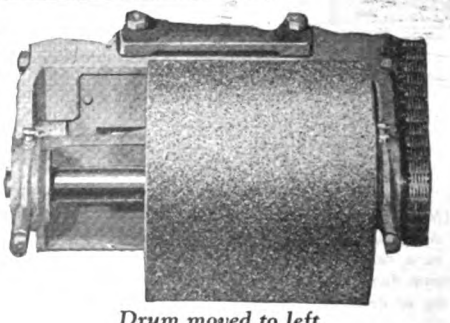


This is the way the machine looks equipped with 8" drum

(12" drum optional equipment)



Drum moved to right within 1" of wall



Drum moved to left within 3" of wall

Master Woodworker Mfg. Co.
612 Brush Street
Dept. A
Detroit, Mich.

Send me your new folder together with offer showing how I can buy a Master Floor Sander on small payments allowing machine to pay for itself.

*Name*_____

*Address*_____

Digitized by Google



Put a real selling point into the roofs of your block

Give your group of houses permanent and attractive roofs, like those shown above. You will thus overcome any impressions of hurried or cheap construction that the "prospect" might otherwise have.

Home-buyers have been educated to demand the "better home." A roof of

Ambler Asbestos Shingles

will stand out distinctively in comparison with other offerings that are covered with inflammable, flimsy or "curly" shingles—will give you fine talking points about permanence, fire protection, low insurance, elimination of maintenance, etc.

Built entirely of asbestos fiber from our own mines and combined with the best quality of hydraulic cement by a process that eliminates porous spots.

Ambler Asbestos Shingles are available in Newport Gray, Indian Red, Moss Green, Brown, Blue-black and other colors for color-blend roofs.

Let us send you free samples of Ambler Asbestos Shingles, also specimens of Ambler Linabestos Wallboard and Ambler Asbestos Building Lumber.

Asbestos
Shingle, Slate, and Sheathing
Company

Department C **Ambler, Penna.**

Branch Offices: Baltimore, Boston, Buffalo, Chicago, Cincinnati, Columbus, Detroit, Cleveland, Minneapolis, New York, Omaha, Philadelphia, Pittsburgh, Washington, Wilkes-Barre; Toronto, Canada; Havana, Cuba.
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Dixie Asbestos Co., Birmingham, Ala. *Other distributors throughout the country.*



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A Combination Bath Tub

—PATENTED—

One size only, for all size people

Regular Bath, Seat Bath, Shower Bath, Foot Bath, and Child's Bath, all in one piece

Made of Semi-Vitreous Porcelain Ware

and

Enameled Iron Ware

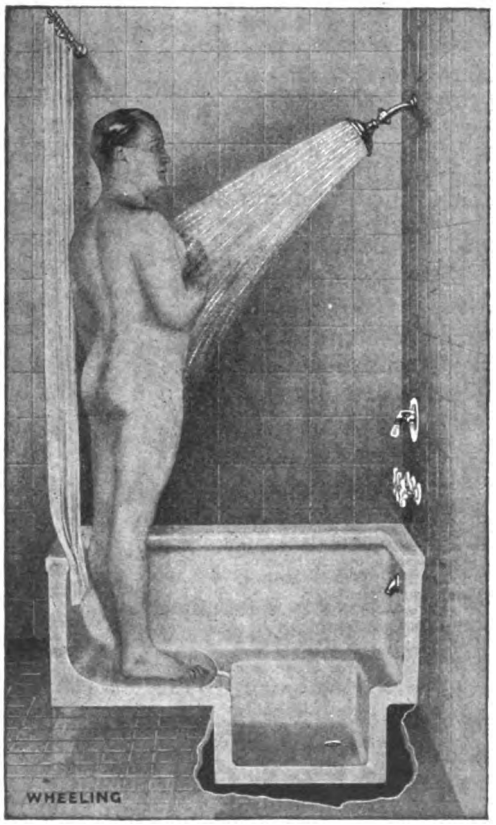


Plate 30 E

Semi-Vitreous Porcelain Ware, 44x30 inches to tile in right or left hand corner, or in recess. Glazed white all sides. Only one size made.

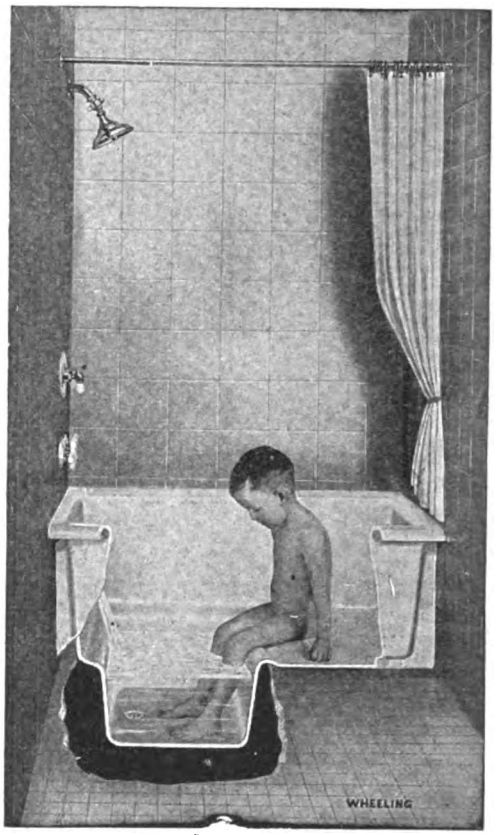


Plate 10 E

Enameled Iron Ware, 44x30 inches to tile in recess only. Enameled white front. Waste in foot section either right or left hand end. Only one size made.

Testimonials

Mr. T. H. Kelley, 158 E. 188th St., New York City, says:

"I had installed in my house several months ago, one of your Combination Bath Tubs fitted complete with shower and curtain, and I cannot say too much in recommending this fixture and am glad I decided on this new type of tub, as it gives the bathroom features that other pattern tubs do not have.

"I am a man weighing two hundred pounds and the tubs have ample room for one of my size to properly bathe.

"You are at liberty to use this letter in any way to advance the use of this fixture, as I cheerfully recommend this tub to anyone, and if I were to equip another bathroom for my own use, or for sale, I would use this Combination Tub."

Dr. Herman N. Bundesen, 7414 Oglesby Ave., Chicago, Ill., installed one of these tubs in his new residence a year ago, and remarks as follows:

"It is the best fixture I ever saw, and I would not be without it for anything. It is most economical in the use of hot water, and this is a decided advantage where instantaneous gas water heaters are used. Furthermore, it is an ideal tub where there are children, as it can be used to great advantage as a foot bath when the children come in dirty from playing. The shower feature is also an advantage which I greatly enjoy. In fact, this tub is most acceptable in every way, and I must thoroughly recommend this fixture."

Mrs. Bundesen is equally as enthusiastic as the Doctor, and states:—

"It is a wonderful bath."

Sold through jobbers of Plumbing Supplies
Write us for descriptive circular

Wheeling Sanitary Mfg. Co.

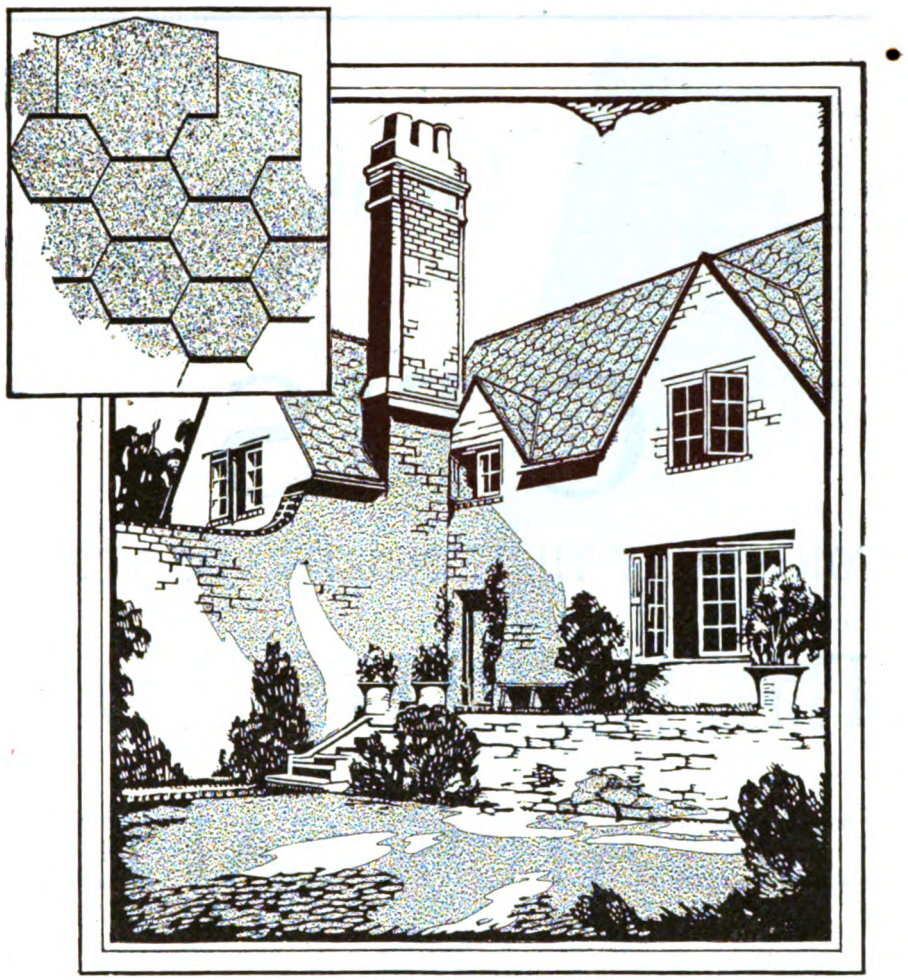
Wheeling, W. Va.

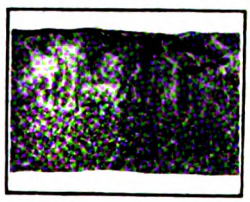
Vitreous China Closet Bowls and Flush Tanks of all kinds.
Semi-Vitreous Porcelain Baths, Sinks, Lavatories, Drinking Fountains, Urinal Stalls, etc.
Enameled Iron Baths on feet and on base.

Branch Office and Show Room: 315 Wrigley Building, Chicago, Illinois

Williams & Devitt Warehouses, Harrison, N. J., and 146th and Exterior Sts., New York City

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MICROSCOPIC
ENLARGEMENT

The wearing qualities of Preston Shingles are dependent not only on the quality, but also on the quantity of asphalt which each shingle contains. If you examine the edge of a Preston Shingle you will notice that it is practically a solid body of asphalt. This feature of Preston Shingles accounts for their remarkable wearing qualities.

Preston Shingles individualize any home!

THE charm of any house, whether a mansion or cottage, is increased by Preston Shingles. They are surfaced with slate and stone particles, whose colors are natural and durable.

A series of uniform hexagons produce the attractive pattern formed by Preston Hexo-Diamond Shingles.

In addition to the Sunset blend, Preston Shingles are made in three other colors: Green, Blue-Black, and Red. There are also three weights: Heavy Standard, Extra Heavy, and Massive.

The "massive" weight is much thicker than any other slate-surfaced asphalt shingle on the market and approximately one-third thicker than a Standard No. 1 slate shingle. The deep shadow line which architects insist upon for high-grade work is insured by this thickness which is double at the butts.

Write us today for the book, "The Magic Touch of Preston Shingles." At the same time we will give you the name of a dealer who can supply you.

KEYSTONE ROOFING MANUFACTURING COMPANY
Dept. C-10, York, Pennsylvania

Preston ROOFING

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OTIS

FOR NEARLY THREE QUARTERS OF A CENTURY

THE WORLD'S WORD FOR ELEVATOR SAFETY

OTIS ELEVATOR COMPANY

OFFICES IN ALL PRINCIPAL CITIES OF THE WORLD



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Mr. Ray tests a Laminex door!

LIONEL RAY was a "Doubting Thomas." For years he had sold doors—and he knew what could and what could not be expected of them.

Laminex advertising claimed too much, he said! He doubted the severe water, heat and strength tests conducted by Prof. Grondal at the Forest Products laboratory, University of Washington. His experience had taught him that every door made would shrink, swell or warp.

So on June 14th, 1924, he put Laminex to the test!

Mr. Ray says: "For twenty days we exposed to the weather a regular stock Laminex door. The June sun in Memphis is hot. Until July 4th this door underwent the test! Sun beat on it during the day—and the rain at night. To make sure, when there was no rain, we laid the door down and soaked it thoroughly with water from a hose and allowed the water to stand in the panels level with the stiles."

Results—

1. The door did not shrink, swell or warp. It came through as straight as the day it was made!
2. No open joints resulted. The water-proof cement held.
3. The surface did not peel or crack.

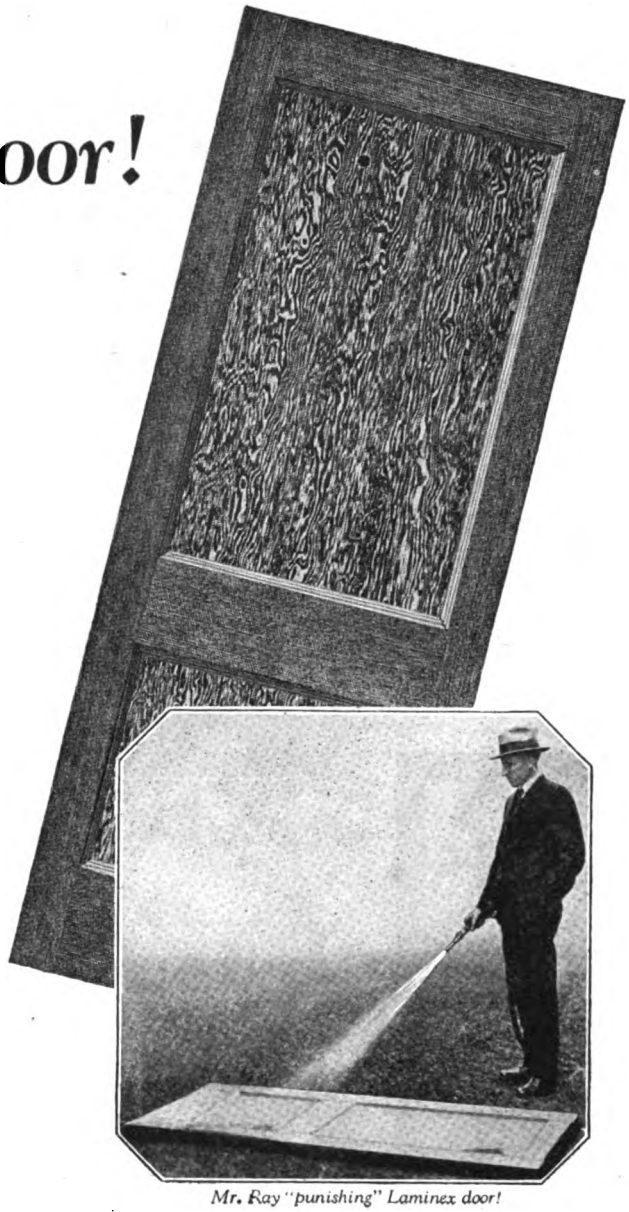
"To our mind, you've produced *a hundred per cent door*," declares Mr. Ray, who, by the way, is secretary and treasurer of the Cole Manufacturing Company, Memphis, Tennessee, one of the leading millwork concerns of the South.

Send for interesting free monograph on Laminex construction. We will also send actual sample of Laminex wood so that you may make the famous water test for yourself.

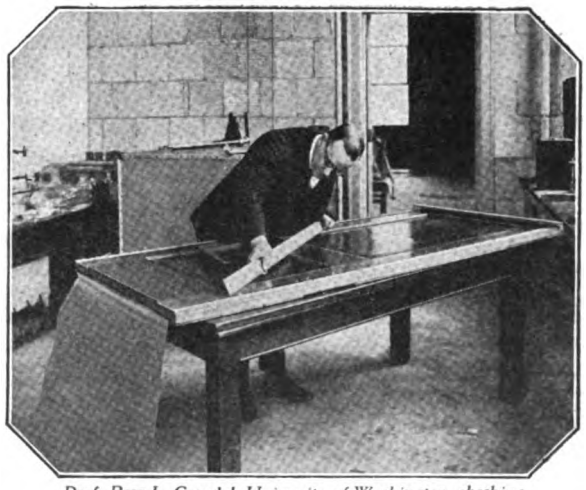
THE WHEELER, OSGOOD COMPANY, Tacoma, Washington

Sales Offices: *New York, Memphis, Los Angeles, San Francisco, Spokane, London, England*

Manufacturers of Laminex Doors Woco Doors and Fir Sash



Mr. Ray "punishing" Laminex door!

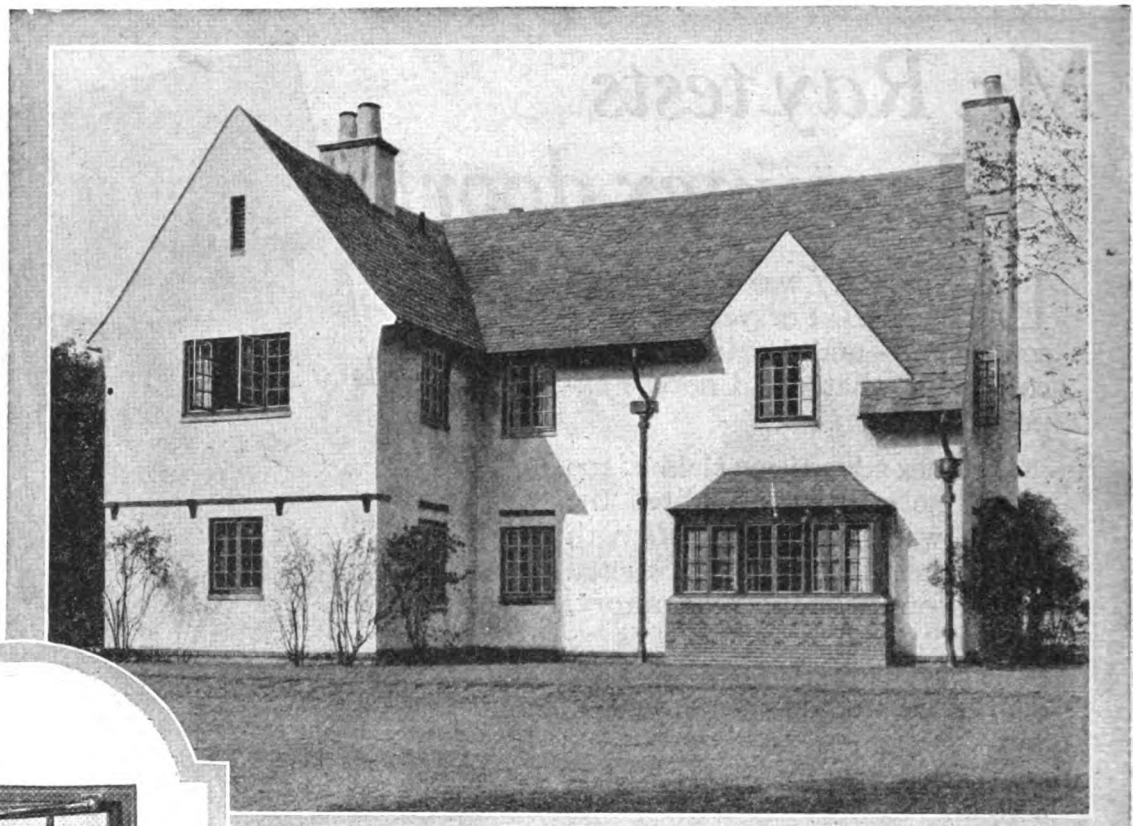


Prof. Bror L. Grondal, University of Washington, checking results of Ray's test of Laminex

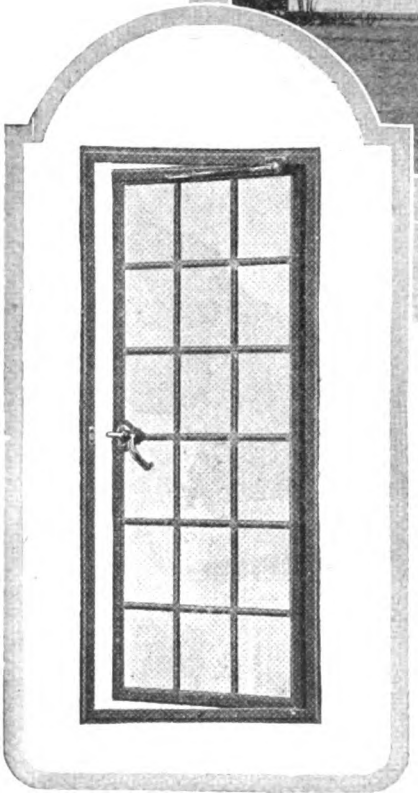
LAMINEX DOORS

WILL NOT SHRINK, SWELL OR WARP

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CRITTALL
Standard Steel Casements



Crittall Standard Steel Casements are made of Crittalloy—the Copper-Bearing Steel

For Homes of Moderate Size and Cost

Casement windows are the extra touch of beauty and value that often result in quick sales of completed homes.

That builders recognize this fact is evidenced by the increased demand for Crittall Steel Casements, now available in standard sizes for homes built to sell at moderate prices.

Crittall Standard Steel Casements should not be confused with less efficient types. In quality and workmanship they rank with the higher priced custom-made Crittall installations.

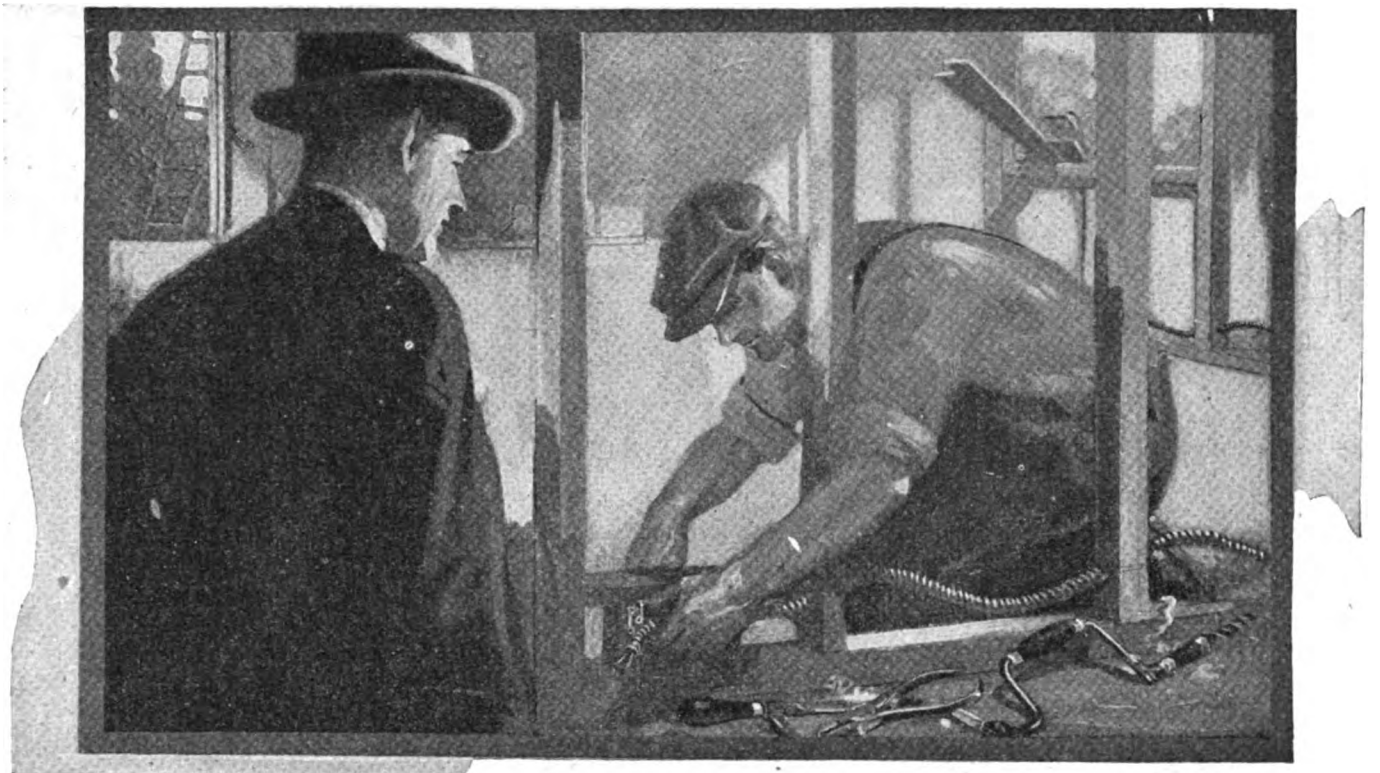
Made to open either in or out, they are guaranteed weather tight. No weather stripping is required. They operate easily—no warping or sticking. Glazing may be either clear or leaded glass.

Literature giving types and sizes may be had upon request.

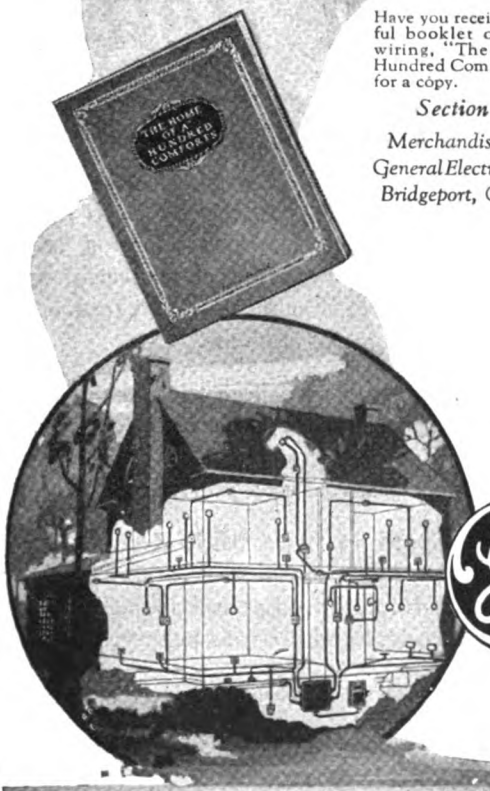
Crittall Cottage Casements
Are standard in size and design and low in cost for use in smaller residences, apartment houses, etc. They have the usual advantages of steel over wood in that they can be operated easily under varying weather conditions. Made to open out only. Ask for literature, giving types and sizes.

CRITTALL CASEMENT WINDOW COMPANY, *Manufacturers*
10957 Hearn Avenue, Detroit, Michigan

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Quality wiring is a *selling* point



Have you received our helpful booklet on complete wiring, "The Home of a Hundred Comforts"? Send for a copy.

Section BA-10
Merchandise Division
General Electric Company
Bridgeport, Connecticut

Put in a General Electric Wiring System throughout a house, and you have a strong added selling point for the house.

The fame of General Electric—known the world over for electrical achievement—speaks for quality to the man you are selling. He may know nothing about BX cable, insulated wire and conduit—about switches and outlets and sockets. But he knows much about General Electric — and he knows the importance of a G-E Wiring System throughout a house. Specify G-E—talk about the wiring system—and make your selling easier.

GE WIRING SYSTEM
—for lifetime service

GENERAL ELECTRIC

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More and Better Windows

"MORE sunlight, more windows and better windows" is the goal of those builders and architects who are giving serious thought to the problems of planning healthful and cheerful working quarters. The buildings which suffer most from vacancies are invariably those that suffer from lack of sunlight.

When planning a new building or remodelling the old make sure that you have made provision for an adequate supply of windows and then specify "The BEST Glass," the glass that is an example of perfection by which ordinary glass may be judged.

The outstanding qualities found in "The BEST Glass" can be traced to the skillful manufacturing operations. Carefully selected raw materials, an improved flattening process and double annealing contribute to its strength, clearness and lustrous beauty.



Our grading is the recognized standard for the United States, and is higher than the foreign standards.

Our window glass comes in single and double strength and like all sheet glass is graded. But our Grade B is the equal of Grade A of ordinary glass and Grade B is correspondingly superior. Our elliptical trademark is on every box as an assurance of quality.

AMERICAN WINDOW GLASS CO.

The BEST Glass — World's Largest Producer of Window Glass — The BEST Glass

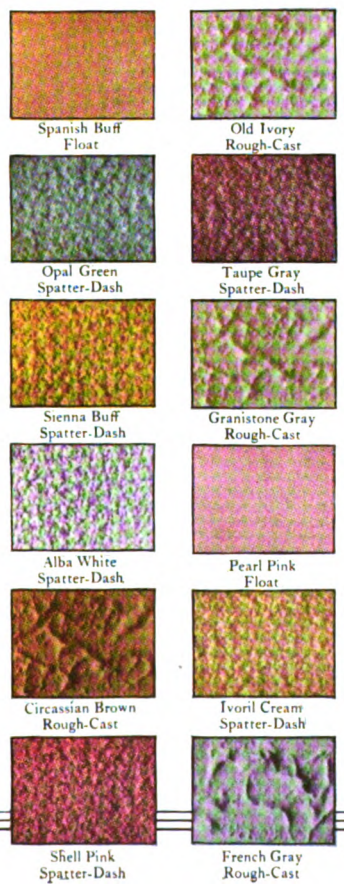
GENERAL OFFICES: PITTSBURGH, PA. BRANCHES IN PRINCIPAL CITIES

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R. C. Hunter & Bro.
Architects
New York City, N. Y.

The color diagram below shows the twelve attractive tints of Bishopric Sunfast Finish. One of these beautiful color tones can be selected to blend artistically with the general color design of any building.



BISHOPRIC

Is what youve been looking for!

BUILDING with Bishopric is like making a work of art. You have everything to work with—unlimited variety of finish and this beautiful palette of sunfast colors.

In addition you have high insulation values and surplus durability.

It is a satisfaction to feel that in recommending Bishopric you can make the owner's most fanciful dream come true and at the same time construct a comfortable, fire-resisting, low maintenance building at high speed and low cost.

Write today and let us tell you more about this new and proven system of stucco construction.

THE BISHOPRIC MANUFACTURING COMPANY
EIGHT ESTE AVENUE · CINCINNATI, OHIO

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EVERYBODY SEES COLOR ADVERTISEMENTS

The Andersen Lumber Company says: "We have just completed a six months trial of color advertising and our records indicate that it has been very satisfactory to us, both in tangible results and those results which we cannot measure by actual orders.

"When our first color advertising appeared we received a great many letters of favorable comment from all over the country and it has seemed to us that our advertising is now reaching a great many people whom we have not been able to interest before."

MAC MARTIN ADVERTISING AGENCY

Security Building, Minneapolis

Digitized by Google

Not one of the window frames in the Old Sawyer House showed a defect. We have sections of these frames on hand which we will show you upon request.

Write for latest information on Andersen Standard Frames, stating whether you are an architect, builder, dealer or prospective home owner.

WHITE PINE Andersen FRAMES

Look for this trademark—it appears on every Andersen Frame.



Frames that outlast the building

For sixty-nine years the elements battered against the "Old" Sawyer House at Stillwater, Minnesota. Rain, snow, winds and time tried to beat down this landmark. Yet when torn down to make way for a modern structure the white pine of which it was constructed was ready for many more years resistance.

Andersen Frames today are made of this same weather and time resisting white pine.

Andersen Lumber Company
Bayport, Minn.

Andersen FRAMES

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MASTER·SLAB·ROOFS

THERE is character in a Nelson Master Slab Roof. Its rich, warm colors make the cottage look inviting. To the great mansion its cool tones lend quiet dignity.

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The B. F. Nelson Manufacturing Co.
Minneapolis, Minn.



Notice the beautiful lines of a Nelson Master Slab Roof. The colors become softer and more harmonious with the changing seasons. Write for free samples of the six basic colors, moss green, autumn brown, Spanish red, velvet black, purple or maroon.

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At the Hoist

STEAM hoists and railroads are important factors in present day logging, as streams are seldom available to carry the logs all the way to the sawmill. ¶ Modern logging differs from the old days when it consisted of cutting the timber and floating the logs to the mill. Today it is an expensive engineering accomplishment. ¶ Less enduring wood can be obtained more easily but Shevlin Pine because of its many superior qualities is worth all the labor it requires.

Shevlin, Carpenter & Clarke Company

900 First National-Soo Line Bldg., Minneapolis, Minn.

SHEVLIN

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Nelson
Master Shake Roof

CONSIDER what the name Nelson, Minneapolis, means as a trade mark on your roofing. Nelson factories have a tremendous annual production of roofing felt.

Surfacing rock for finishing Nelson Roofs comes from Nelson's own quarries and is crushed by Nelson machinery.

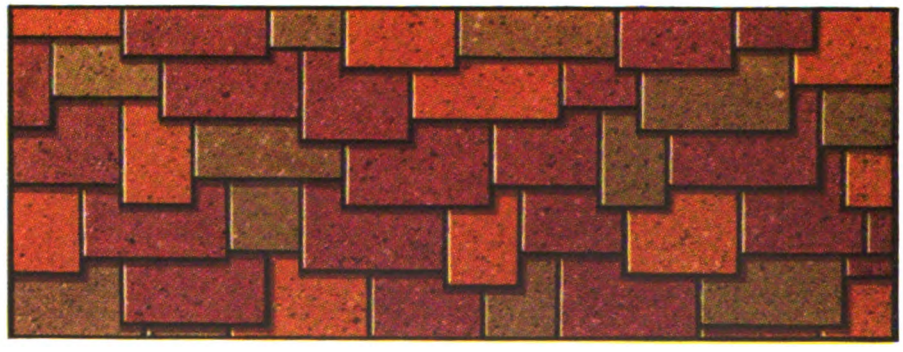
The Nelson mill has been making roofs for sixty years. Its policy is one of progress, hence the Nelson Company aims constantly to work in direct contact with leading architects and contractors to the end that new designs, meeting every requirement of the building trades, may be provided.

Nelson Roofs in materials, design, durability and economy are thus constantly in advance of the roofing industry as a whole.

Witness the new Nelson Master Shake illustrated here. Master Shake is made of time tested materials and by time tested processes but it gives the building trades an approved design with which to secure those pleasing, lasting, entirely new effects constantly sought for by builders generally. Master Shake is easy to lay.

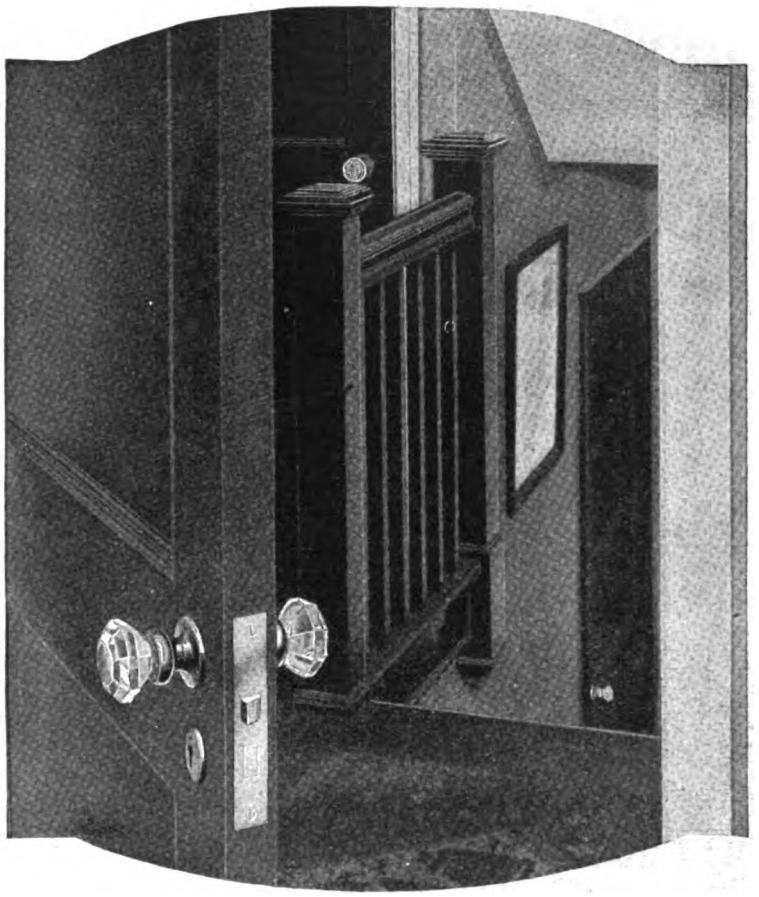
The B. F. Nelson Manufacturing Co., Minneapolis, Minn.

The Master Shake Roof shown above is a warm variegation of maroon, Spanish red and autumn brown. Kenneth B. Worthen, Architect, H. F. Lindahl, Associate, 645-647 Endicott Building, St. Paul, Minnesota



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SARGENT
Locks & Hardware



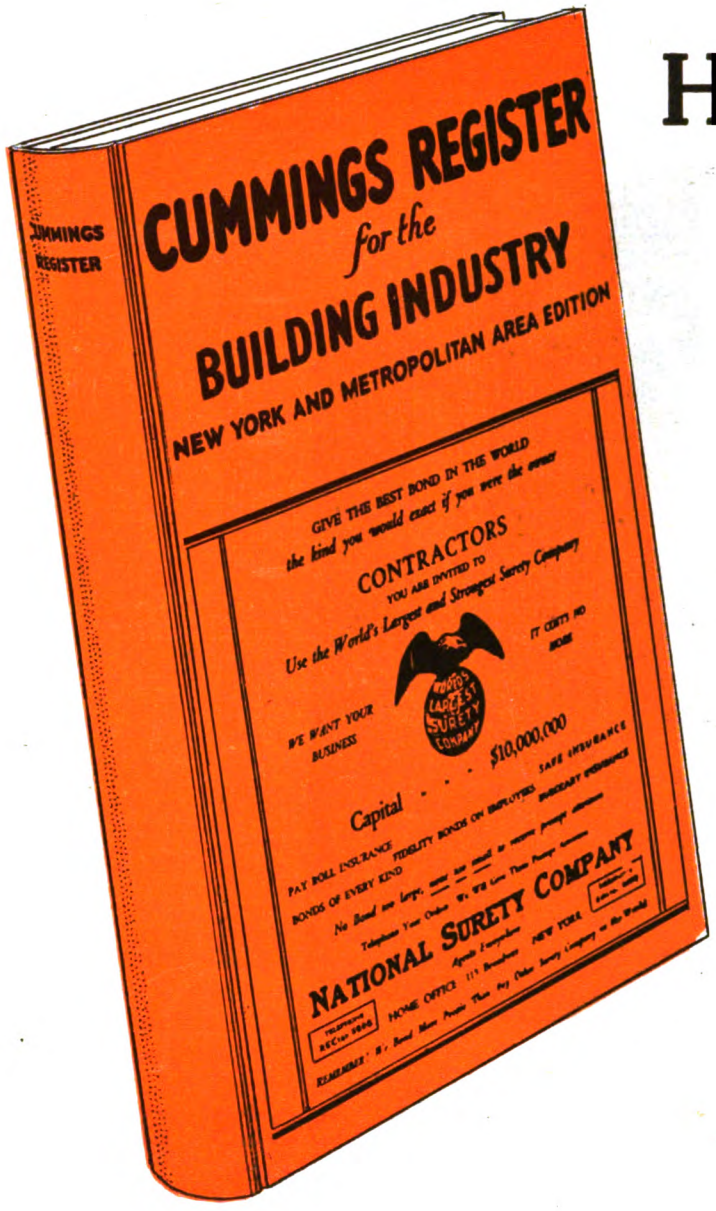
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Summary of Contents

Material Section

A complete classification of building materials, supplies and equipment from "Acetylene" to "Zinc" showing manufacturers and dealers in these products, located or having representation in the Metropolitan Area.

Trade Name Section

In which will be found the leading trade names of products of the building industry together with the name and address of the manufacturer and his New York agent.

Service Section

A complete classification of architects, engineers, general contractors, subcontractors and others having a service to render the building industry, arranged geographically so as to be of greater service.

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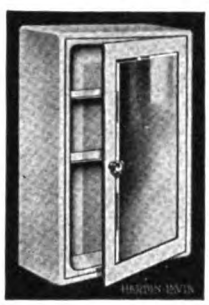
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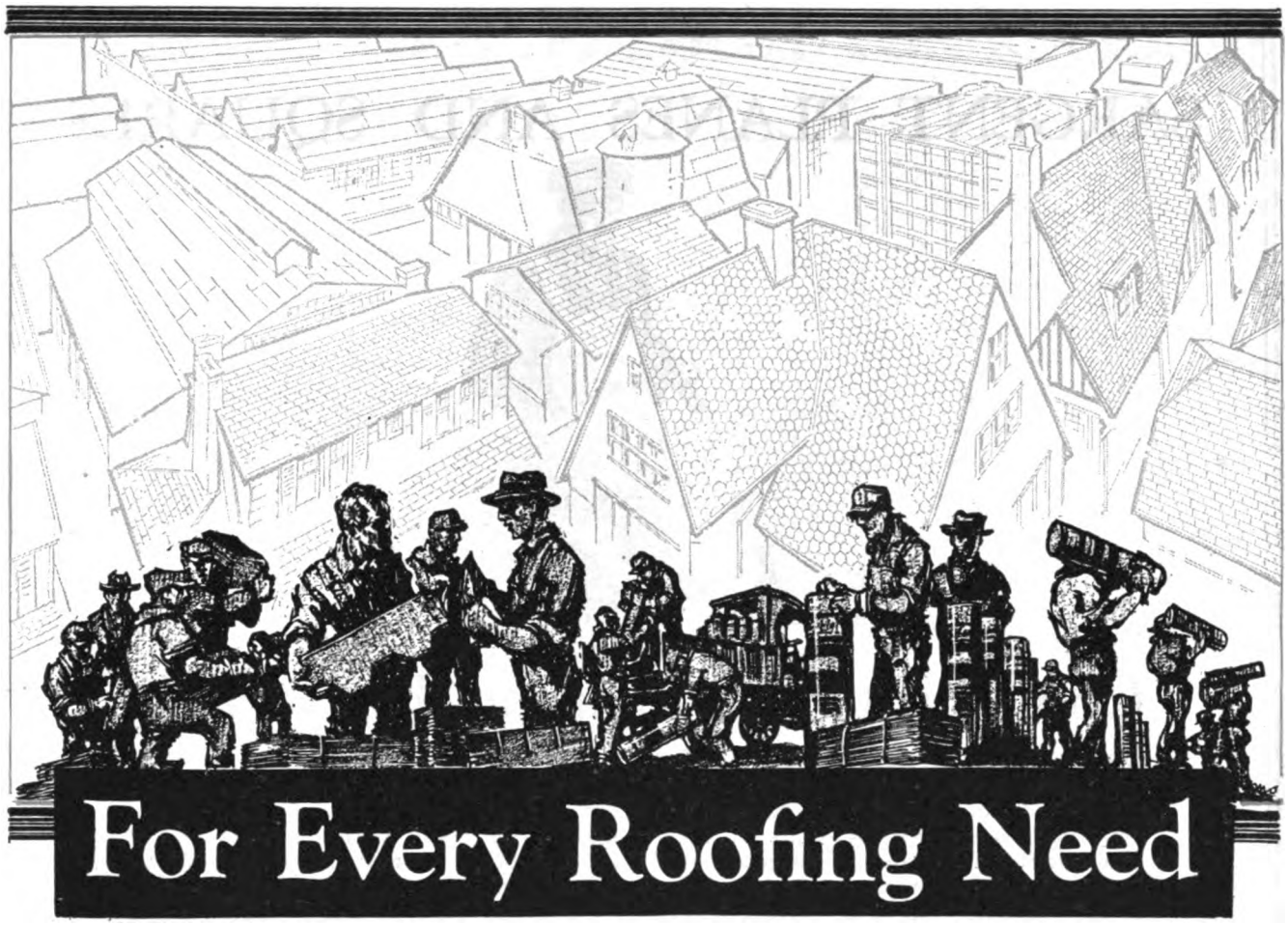
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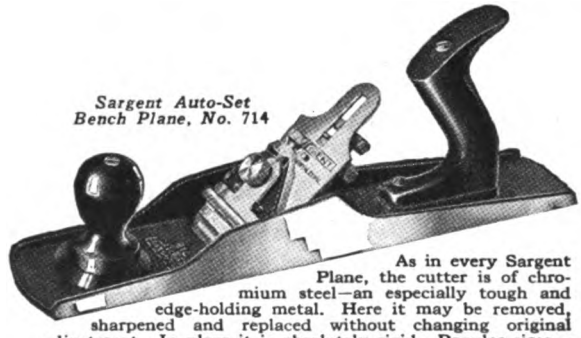
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First National Bank Building, Detroit, Mich.

Albert Kahn, Architect

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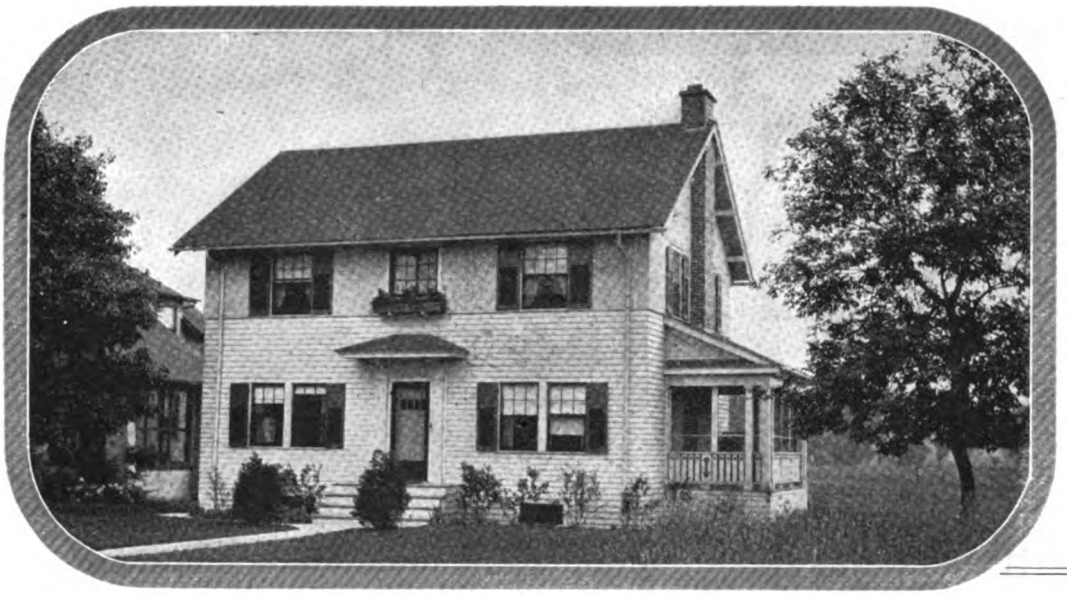
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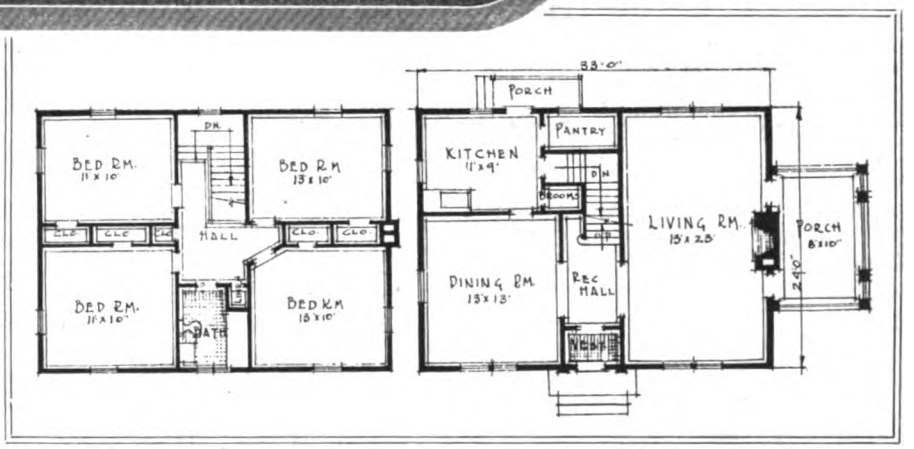
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Building Age
National Builder
With Which is Incorporated
The Permanent Builder and The Builders' Journal
New York, October, 1925

BEAUTY IN NUMBERS



THE Converse House. This exterior is in the substantial hospitable American type. Solidarity, relieved by an intrinsic grace, mark it as a home of refinement and good taste. The plan contains seven rooms, all of good size. A screened porch opens from living room while all rooms are easily accessible from the reception hall.



THERE is, or at least there can and should be, beauty in numbers and nowhere perhaps, is this better exemplified than in a group development of small homes. Such a community should be planned with an eye to order of the whole and each building should have a sense of fitness with the entire group rather than as a single unit.

Many such interesting developments are being built for clever builders realize that the street where the group idea has been carried out is "made" from the very first and it needs not depend for its looks on the hit or miss tactics of individual owners.

Some of our most successful speculative builders will not build unless they can control both sides of one entire street from end to end for in this way they can create a much better effect and "make" the street. There is a distinct financial advantage in this as the houses command a better price. People see just what the development is, it is not in the going to grow stage but is already there.

Sometimes the entire street or number of streets in the development are built practically at the one time but in other cases a few buildings are erected at one time and added to as finances and sales war-

Clarendon Hills Development

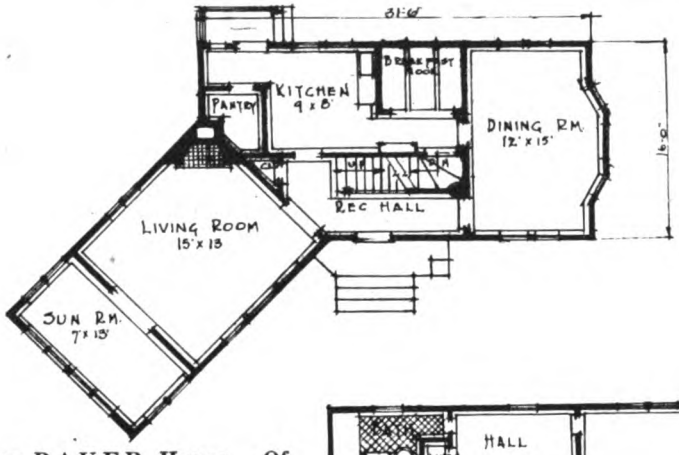
William T. Braun
Architect

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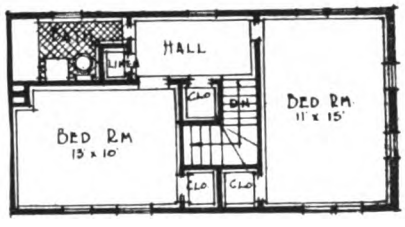


This section, 22 miles southwest of the Loop, was laid out many years ago, but only placed on the market in 1923. The ground is rolling with many of the streets laid out in curves to conform to the topography. Large, stately elms, some half-a-century old, line many of the streets. Thirty-five houses have already been built.

One of our readers, William T. Braun, architect, designed the clever little houses, a few of which are illustrated here. Mr. Braun also ordered materials, awarded sub-contracts,



BRAUER House. Of English precedent, this five room house has its living room at an angle to conform with curve of street. Its long vistas give an appearance of added size.



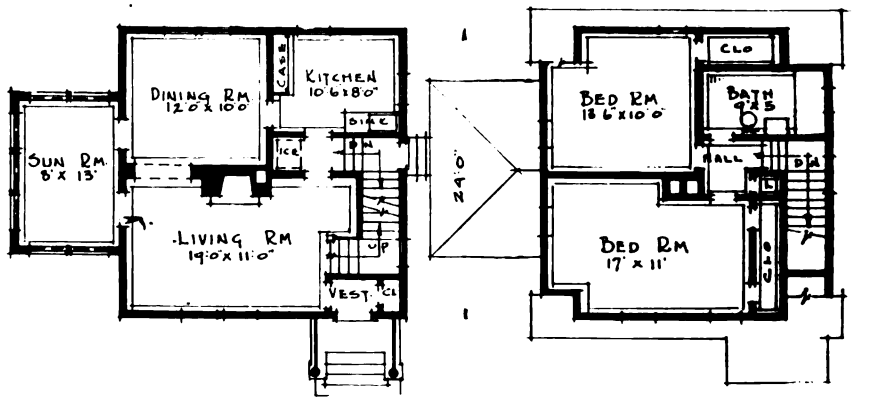


RADFORD HOUSE. A charming Dutch Colonial design which is pleasing when seen from any side. This plan is the five room 24 foot square plan, with sun parlor opening from living room and dining room.

rant, but with the idea always in mind of making a complete group of beauty. In other words, plan it all out in advance, and carry out the plan.

IN other cases where a beautiful development is planned, but depending largely on individual owners for its development, a wise restriction is to have certain specified sizes or styles of houses mentioned and also further making it a condition that plans should be submitted to the developer's architect for approval.

This will prevent the erection of buildings that will not harmonize with the whole progam. Many of our beautiful high priced developments have been successfully built by this method.



That this method can be successfully worked out for moderate priced houses is borne out in the case of the building of Clarendon Hills, a suburb of Chicago, the development of A. T. McIntosh & Company.

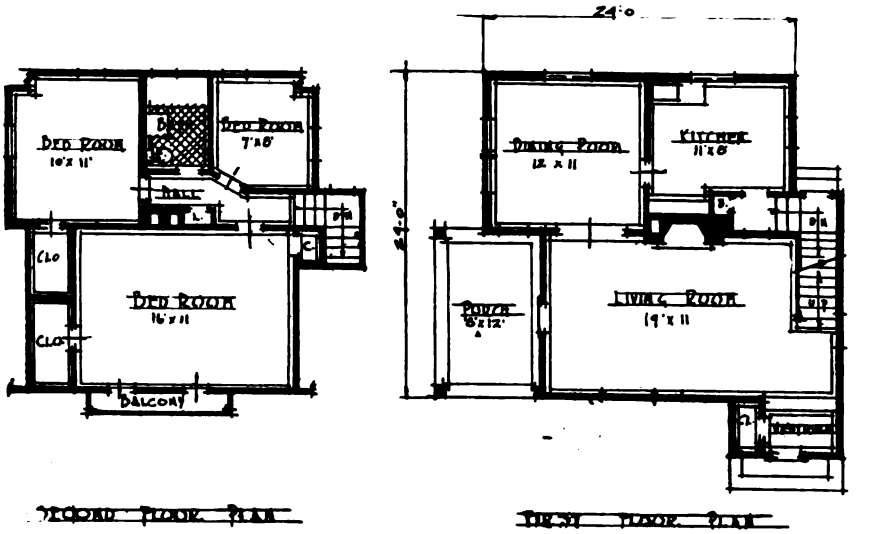
and supervised the construction. There are five, six and seven-room houses and bungalows, ranging in cost from $6,000 to $12,000.

The homes were built on lots which the owners had purchased,

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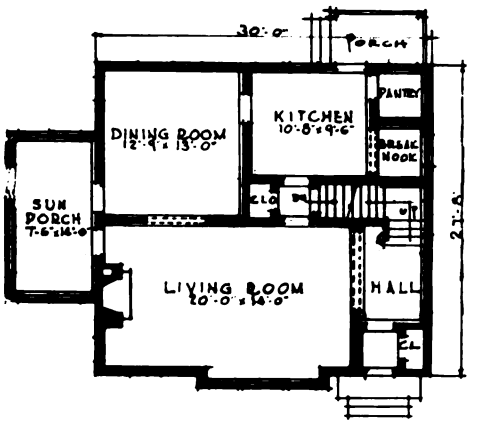
and not in groups or blocks as is the case in ordinary speculative work and for this reason, no one particular style of architecture was followed for the entire number.

Each floor plan as well as its exterior was worked out to fit an individual owner's ideas and still have its design conform as far as possible to the site and neighboring buildings so as to secure "beauty in numbers."



MANN House. A six-room house following lines of Swiss chalet, the lower part of stucco and the upper brown stained boards with wood battens placed vertically. Porch has been glazed in, adding another room to this already compact and attractive home.

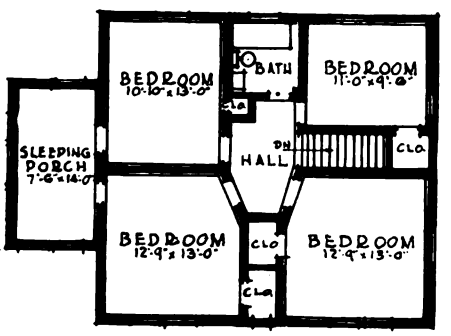


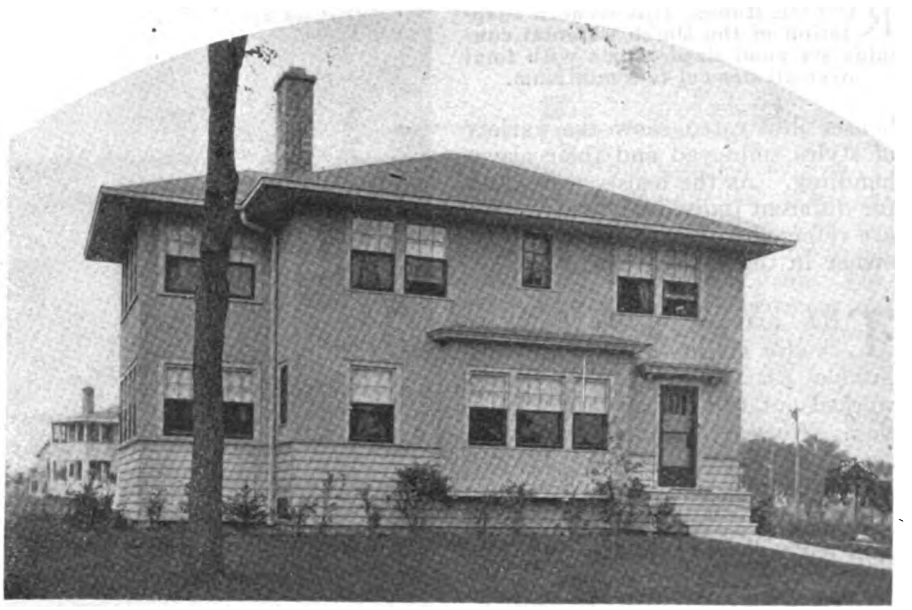


RUTHART House. For area contained, this square type gives the largest sized rooms. Exterior has a straightforward expression of the plan. Sun parlor and sleeping porch on the left are an integral part of building. Access to latter is had through either bed room.

Economy of construction was carefully watched, materials of stock sizes and stock trim being used. The greatest care was observed in laying out the plans so as to save space and reduce the housekeeping duties to a minimum.

Contracts were placed for lumber,



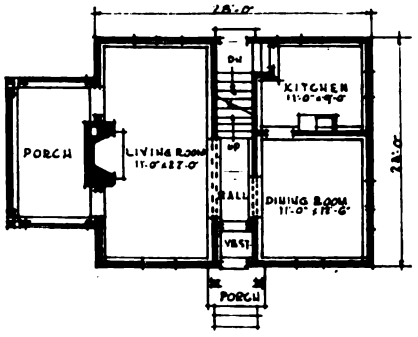


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millwork and other materials where possible for the entire development. Carpentry and masonry labor was done by day work and the other trades sub-let. A site superintendent was in charge of the workmen employed by the day.

All of the fruits of years of experience in building of homes by the designer was utilized in the planning, resulting in substantial homes of good design devoid of jig-saw ornament and useless features. The



ROSCOE House. This modern adaptation of the Dutch Colonial contains six good sized rooms with total over-all size cut to a minimum.

houses illustrated show the variety of styles employed and their clever handling. As the houses were built for different individual owners, they are referred to by the name of such owner in this description.

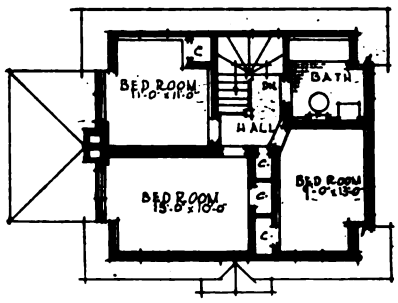
THE exterior of the Converse house is the substantial, hospitable American type, all details worked out to their proper proportion. It has seven rooms, all of good size.

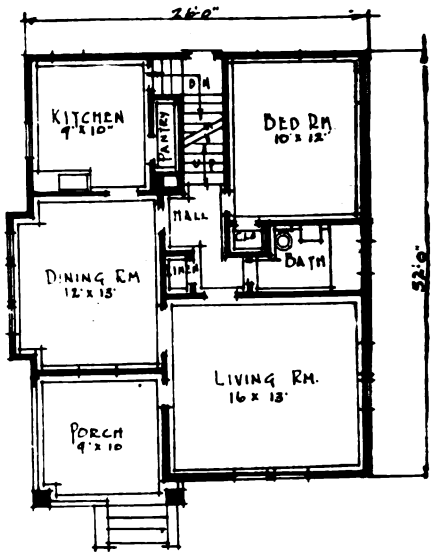
The Brauer house is an irregular five-room type with living room wing placed at an angle to conform with the curve of the street.

An agreeable Dutch colonial design, pleasing to view from any side, is the Radford house. This is also the five room type with a 24 ft. square plan.

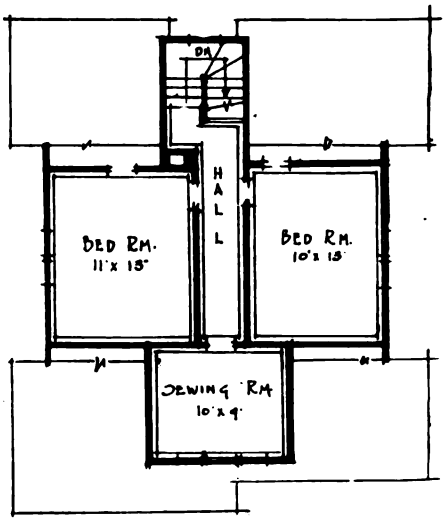
FOLLOWING the lines of a Swiss chalet is the Mann house, the lower part of which is stuccoed and the upper brown stained boards with wood battens placed vertically. The porch has been glazed in, adding another room.

The straight forward square-type



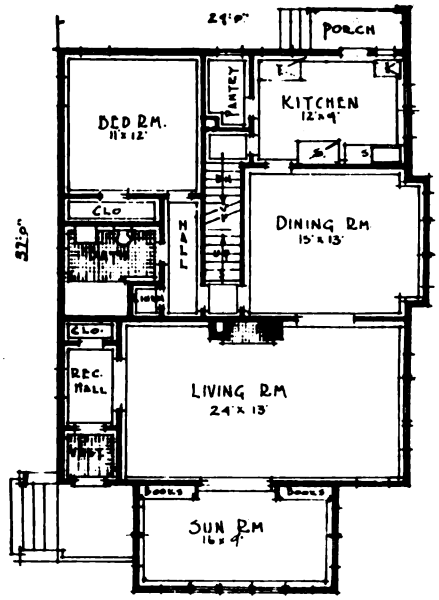


HJORTH House. This charming bungalow is complete with four rooms downstairs and affords opportunity of finishing off three rooms in attic as the need arises.

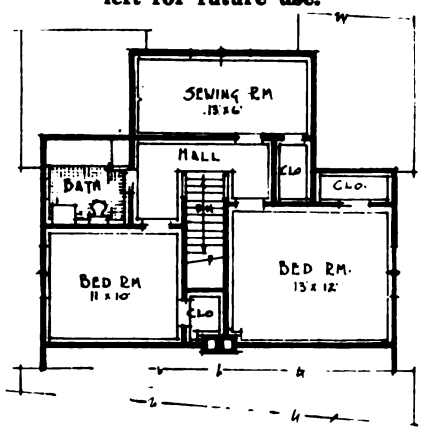




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OLSON House. A large roomy bungalow of half-timber and stucco English design, its roof lines conforming to top of knoll on which it is placed. Second floor finishing is left for future use.



SECOND FLOOR PLAN

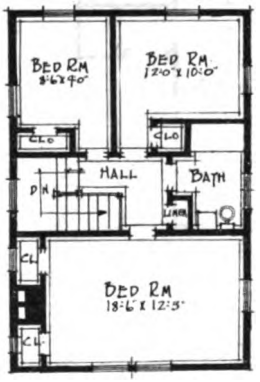




Ruthart house gives the largest size rooms for the area it contains. Simple lines create beauty here.

The Hjorth house is a charming bungalow complete with the four rooms downstairs, and affords the opportunity of finishing off the three rooms with good height in the attic.

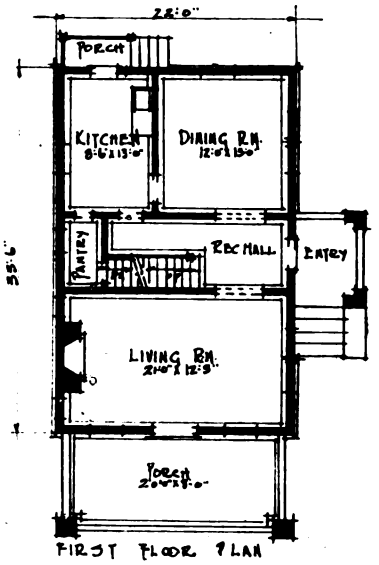
In the Roscoe house is seen a modern adaptation of the Dutch Colonial type. It contains six good-sized rooms.



BEHRENS House. A six room design with wide over-hanging eaves—a very comfortable and inviting exterior. Center hall plan has been worked out with a side entrance.

The Olson house is a large, roomy bungalow of the half-timber and stucco English type, conforming to the top of the knoll on which it rests. It has five rooms on first floor, the second floor is for future development, as the owner may desire.

The six room cottage has always been a most popular one and the Behrens house shown here is a very



FIRST FLOOR PLAN

comfortable one with an inviting exterior. The center hall plan has been worked out with a side entrance giving a large living room and porch across the front. Upstairs there is one large bedroom and two smaller ones each with closet, with bath, and halls with linen closet.

Here have been shown a number of one-family designs of just the type this country needs. At present, there exists a staggering shortage of homes costing in the neighborhood of $5,000. On other pages, our survey of the present shortage brings out these facts.

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The Problem of the Home Designer Is to Give to Modern Homes Exteriors Adapted from Different Styles of Architecture

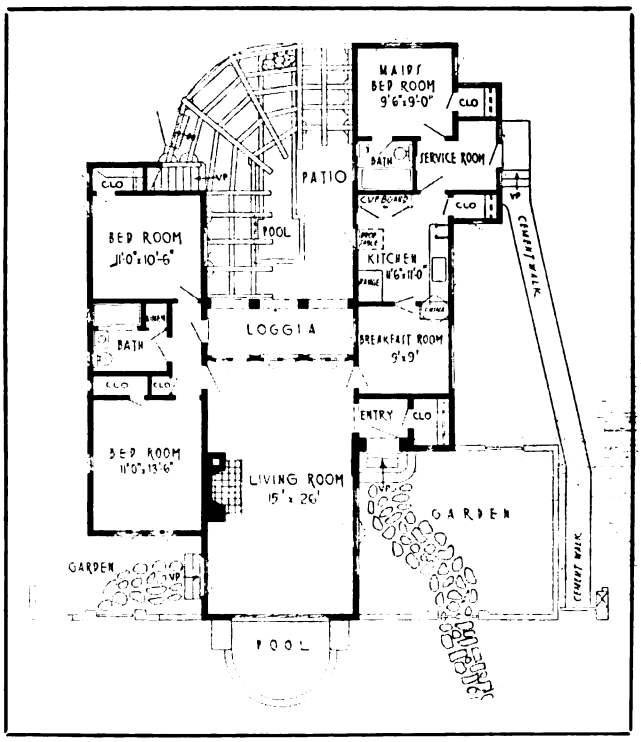
THE wise designer of modern homes studies his clients before deciding whether to stress the interior arrangement or the exterior. Usually the man who wishes to build demands comfort above all. To him and his family ease of communication between the various rooms is of great importance. His wife, facing a possibility of servantless days, demands all of the modern conveniences it is possible to provide. She seeks to avoid useless steps and wants light and air.

The man who is called up on to prepare the drawings so a contract may be let finds his work quite simple if he listens carefully to all the family and tries to follow out their desires. To him the question of how the house will look to the passer-by when it is completed is settled by the lines which result naturally when the demands of the client are met.

IT is in this manner that regional architecture develops. The house illustrated on this page is an excellent example. It is built in a part of the country that has no winter with snow and blustering days. Sunshine nearly every day is the lot of the happy inhabitants. For short periods each year the heat is intense and shade is at a premium. There are occasional sand and dust storms, therefore enclosure is welcome. On warm days when there is a slight breeze every room should feel it.

The obvious plan was along Spanish lines. The bedrooms and bath room are on one side of the house with ample provision for circulation of air. The long living room has windows in the front and rear, commanding views of cool shrubbery, grass and water. From the rear window, which is a series of French doors opening on to a loggia, the view of the patio and pergola is calculated to make one feel cool on the most warm day. The service rooms are on side opposite to bedrooms.

So much for the interior. Having satisfied the owner and his family the designer avoided the rock on which many designers come to grief when they attempt to stress exterior first. When people have their own way in what they consider the vital details they will listen to suggestions for what they consider relatively less important. The designer of this house managed to add another interesting detail. He made his exterior reminiscent of Aztec, perhaps more correctly, Zuni, architecture.



THERE is the flat roof on which the family assembled after the heat of the day to enjoy the pleasing evening breeze. There are the heavy appearing vertical walls brought about the use of adobe brick, with protruding ends of timbers carrying the roof. The aboriginal Americans who evolved this type of architecture used ladders on the outside to reach their roofs. When an enemy pursued them the ladders were removed and the vertical walls could not be scaled.

The flat roof is as welcome today as it was in the past and for the same reason. The need for ladders, however, is gone. The walls are open and the openings are arranged with artistic feeling. Through them the cooling air may circulate and the maximum of comfort be obtained on a hot day and during a hot night.

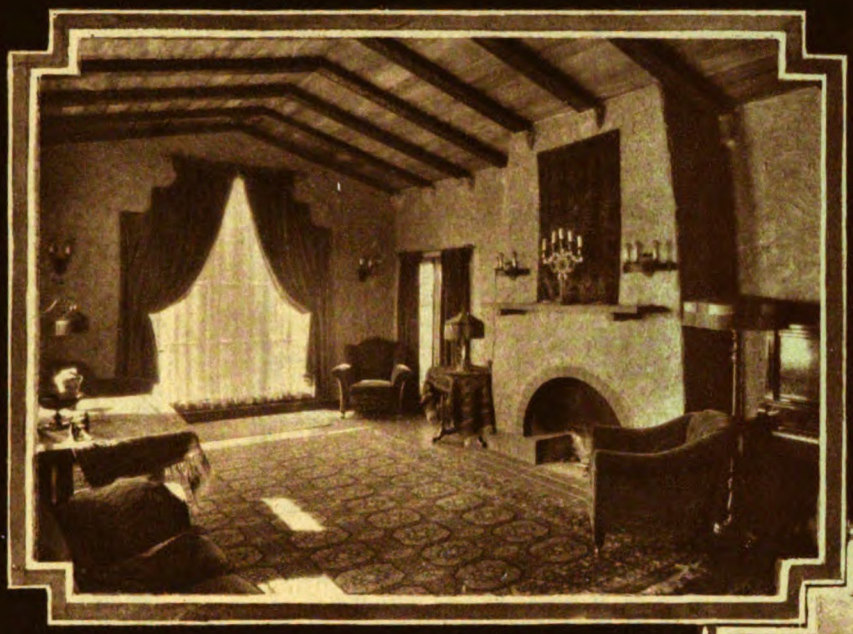
The design is redolent with feeling, the feeling one senses when passing through the region. The house "belongs." It is not large but it has an appearance of enclosing much space. The exterior is that which is associated with the country; the plan is common to semi-tropical places; the arrangement and comfort are twentieth-century American. It is once more a reminder of the fact that architecture is the art of planning and building; it is more than the ability to decorate construction.

IN a profession such as Architecture men learn by studying examples of good practice. There are no definite rules to follow in order to produce results. Through centuries of experience certain methods of procedure have been followed in order to produce definite results. Blind copying, however, will never make things look right. Rules exist merely to emphasize the exceptions.

Bold men deviate. Provided these men are sufficiently grounded in the rules their deviations generally are marked with success. Failures result only when the innovator does not base his variations upon well established practice. The pitched roof belongs in a snowy country. The flat roof belongs in the country where the evening breeze is appreciated after a hot day.

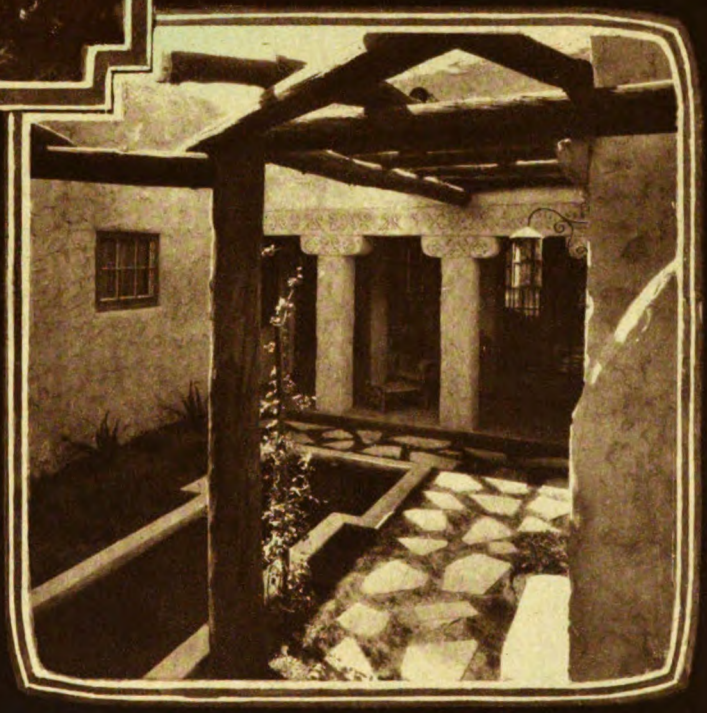
It is one thing to give the owner that which he most desires in the way of arrangement. It is another thing to add the touch of the trained designer to the exterior and thus show the work of the student and artist.

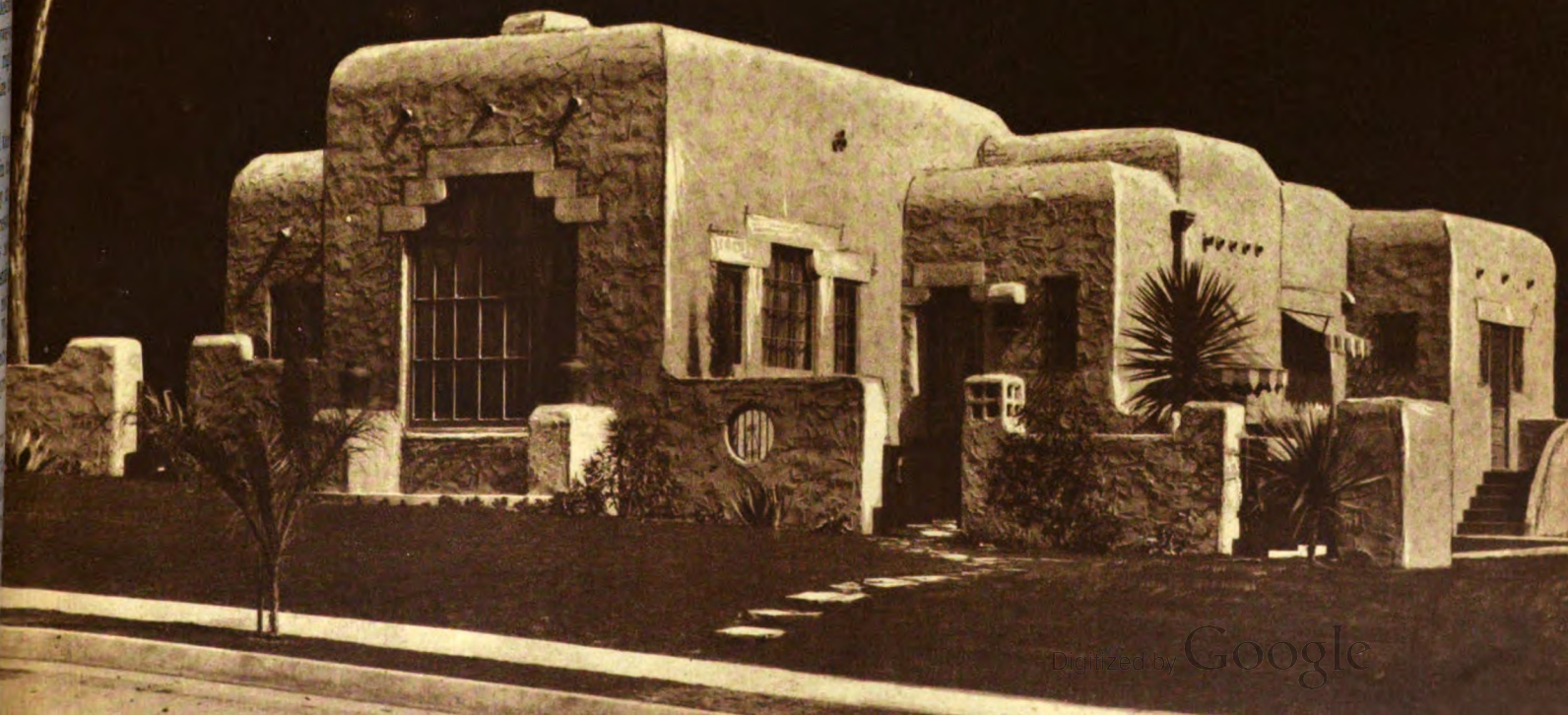
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THE creator of this architectural achievement has worked in just enough of his own precepts to affect an original design yet not one veering far from Aztec-Spanish precedent. Demanding the first admiring attention of the passer-by are the tiny garden courts on either side of the house. Next, the most unusual windows merit commendation; their design is simple yet as far from commonplace as the most unconventional might wish. The plan will show another notable feature discovered in the rear of the site; it is a little patio with a model pool. J. D. Carey of Los Angeles, Calif., is the possessor of this fine home and Robert B. Stacy-Judd, architect.

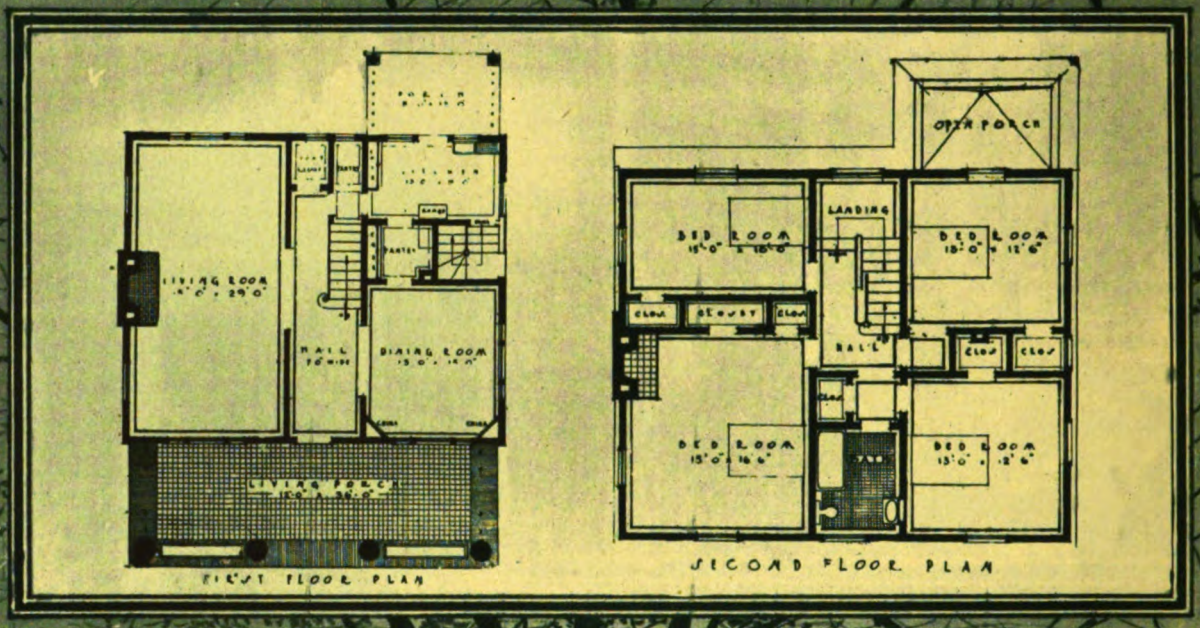
A Design Derived From The AZTEC





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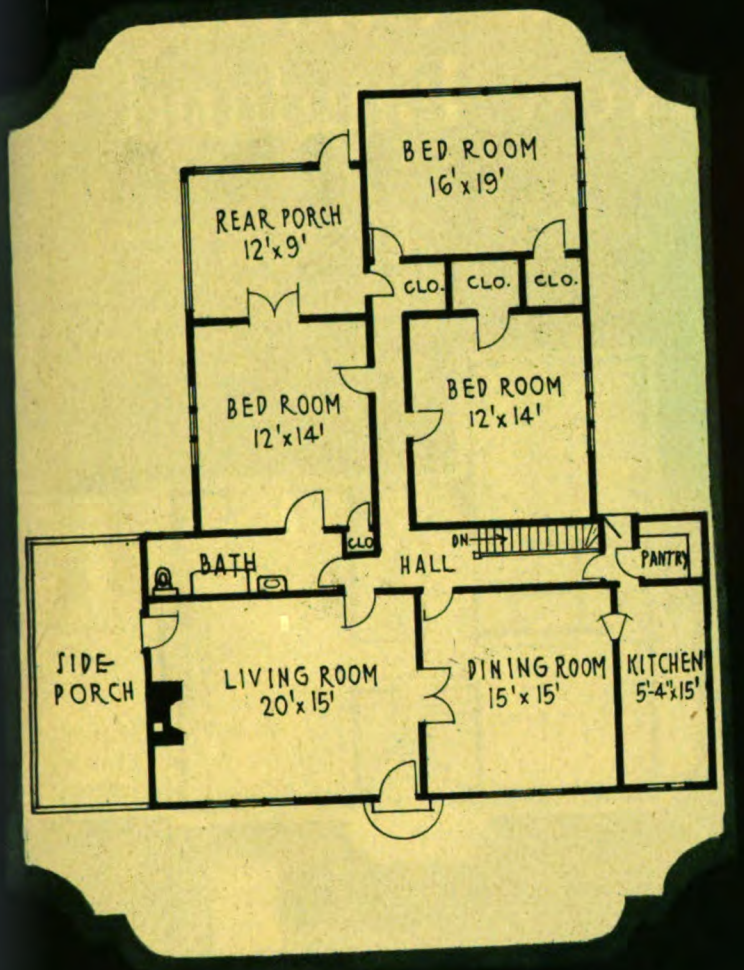
Dutch Colonial of Fine Proportions



PROBABLY it is from the thick-set columns that this Dutch Colonial derives its stolid, enduring qualities. It is truly a solid looking home yet graceful and well proportioned in every single line. The chimney is of brick touched here and there with limestone and the whole nicely balanced with the building proper. Walter H. Van Guysling of Albany, N. Y., is the architect.

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Comforts Feature This Southwestern Home

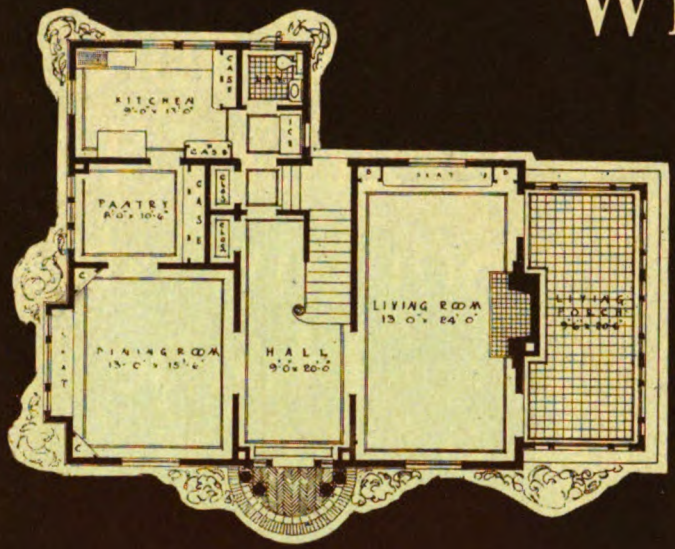


THE design here is eminently original and yet it directs one to a suggestion of some English precedent—the English rambling cottage type, perhaps, so frequently adapted for South African and Australian ranch houses. It is a sturdy, well set-up little bungalow for the walls are of brick, in variegated grays with white joints. Much of the charm effected may be accredited to the wrought iron embellishment, selected with excellent taste. The twin lanterns and balustrades add a touch that makes itself felt throughout the design complete. The plan is well worth consideration; it combines ample quarters and privacy without disassociating the rooms from the bath and from each other. The home is that of Charles A. Clark of Dallas, Texas.

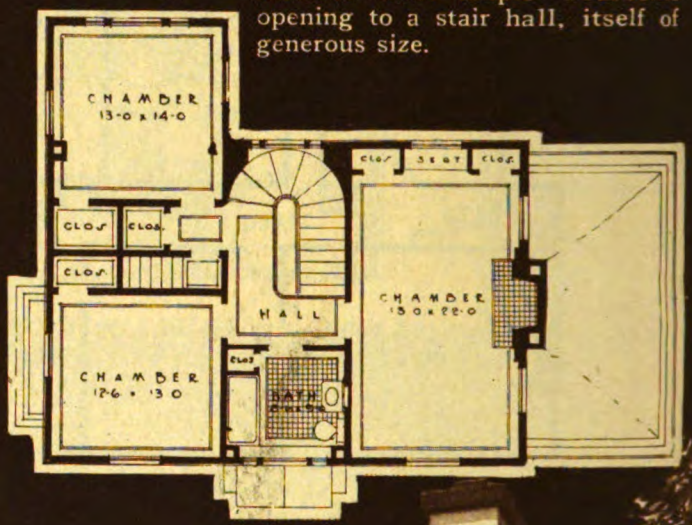


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With the Charm *of* New England



THE sun porch connects with a living room and adds an important feature to an already notable house. The second floor includes three ample bedrooms opening to a stair hall, itself of generous size.



WITH enough foliage to set off this personable design, yet not too much to conceal its beauty, the charm of this New England Colonial is at once evident. Unquestionably, the predominant feature is found in the sun porch with mullioned openings. Thus, this outdoor room has definite design and one in harmony with the main. Strictly Colonial is the doorway from its one-panel door and brass knocker to the leaded fan light and side lights. Wide clapboards are used, of course, to complete the accurate reproduction. The designer is Walter H. Van Guysling of Albany, N. Y.

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Selecting the Hardware *for* a Small House

IN the hardware to be used in the small house illustrated in the blue print section in this issue the material throughout may be yellow brass, or, if one wishes to keep strictly to Colonial ideas, of wrought iron for the more important fittings.

The desire, however, for economy leads to the recommendation that yellow brass be used. Later on it may be replaced by wrought iron when the home-owner wishes to add a few touches.

The front door should have an outside escutcheon of a Colonial pattern, about 9 inches long. The inside escutcheon should have a length of 7 inches. The knobs should be of brass. Here it is necessary to sound the warning that brass, and not iron finished as brass, is recommended. This warning is for all the hardware.

The terms "butts" and "hinges" are used interchangeably. They are made of cast iron, wrought iron, wrought steel, cast bronze and brass. There are many made simply by pressing and the use of butts termed "light" must be avoided.

Use for this house brass butts lacquered after polishing, with strong steel pins, having brass heads. The butts for the front door should be about 5 inches or 6 inches long and the full width of the thickness of the door, with strong edges.

For the doors of the living room and dining room use butts about one inch shorter than the butts for the outside door. For all other doors throughout the house use 3-inch butts. Never use anything shorter.

The size and weight of the butt depend obviously on the size and weight of the door. All doors under 7 feet in height may be hung satisfactorily with one pair of butts. If it is higher than this and very heavy, three butts should be used, one in the middle, one near the top and one near the bottom.

The front door and back door require only two bolts, one actuated by the handle, the other by a key. Use the best quality lock, mortised.

The inside doors communicating between rooms need be single bolt locks only, actuated by the handle. No keys are required. In fact, keys for inside doors usually are lost within a year after a house is occupied.

On the inside of the bedrooms a bolt may be fastened. This is to satisfy timid persons who would like to lock themselves in for the night. They also serve for reassuring guests who may spend a night in the home and who will feel more secure with a bolted door.

THE door to the bathroom should be fitted with a lock having two bolts, one actuated by the door handle, the other a shot bolt, not requiring a key. There is an advantage in the use of such hardware which is not often thought of. It is that there is no danger of a door accidentally being locked when the wind blows. This, of course, can happen with but one type of lock, but it happens often enough, for this self-closing type is often used.

The contractor should furnish the sash weights of such size, shape and weight that the windows will work satisfactorily. This is important. Use only the best make of sash cord, always of course an advertised brand. There is economy in this. The difference is merely the cost of the cord. If a cheap cord is purchased, the cost of replacement is high, being about ninety-five per cent labor. Then there is the improved spring balance sash hanger, several types of which are deservedly very popular, as they do away entirely with the troublesome weights. Another device holds the sash firmly by means of friction wheels held by a powerful spring, with enough give, however, so sash can be easily moved up or down.

Have proper sash fasteners on the sash to lock them shut and prevent rattling. Sash lifts on the lower sash should not be omitted. Many do not like their appearance, but they are convenient when the sash sticks. They enable one to raise and lower a sash without doing anything to distort the frame.

The door knobs throughout should be of glass, especially on the second floor. Some may prefer that all the knobs on the first floor be alike, following the style of the front entrance door.

The hardware in the basement may be of iron, but it should be of good quality. There is no economy in trying too closely to save on hardware. The knobs should preferably be black, as this is better looking than white.

The sash casements being of steel will come supplied with fasteners.

There should be bolts on all closet doors and on the kitchen cabinets. When the door is easily gotten at and is not over three feet high one bolt will be sufficient. It should be of the ordinary horizontal type and of the type classed as "medium-weight."

DOORS more than three feet high and doors not easily gotten at should have two bolts working vertically, one at the top and one at the bottom. These should be mortised in and be operated by a lever on a long vertical rod that will operate the two bolts with one turning of the handle. The handle should be located at a height where it may easily be used. This handle should not be so small that it is presumed it may be turned with the fingers. Such a handle is useless when the bolts stick. The handle should be generous in size, to be grasped by the hand. A lever handle is best and most ornamental.

Keep closely after the painters, to see that they do not splash the hardware. By far the better way is to put all interior hardware in place after the painters are through, the escutcheon plates on the outer door being removed for the convenience of the painter and replaced when the painting is finished and dry. It will certainly pay to look after this little detail.

Do not accept the job until all rattling of doors is eliminated.

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The House That Jack Built

As Told By Himself

SOME few weeks ago we received a very interesting letter from one of our subscribers, Mr. John D. Paul, of Evansville, Ind. It was so stimulating that we wrote him for further information, as we are always anxious to learn what our subscribers are doing. He obligingly replied, and as both letters are so worth while we take pleasure in publishing them. Here is his first letter:

Gentlemen:—

Enclosed find several photos of new homes just completed, models of which were taken from BUILDING AGE AND NATIONAL BUILDER.

I have been a subscriber to your Journal for several years and find same very helpful.

I do build homes that are different from other contractors and that appeal because of their striking individuality.

My homes are installed with the latest built-in features, cabinets, ironing board, clothes chutes, tile bath floors with built-in bath fixtures. Each room has its own color scheme, with tiffany blended walls and satin finish woodwork. I include also gold linen shades, gas range, ice box, etc. The porch floors and walks are of maroon color checked tile. To complete the picture, I have the grounds landscaped, all of which make the homes very attractive and quick sellers.



Jack D. Paul

I can highly recommend BUILDING AGE AND NATIONAL BUILDER, as my business has increased fifty per cent. since I have profited by its contents, and I am building better and higher class homes, which makes the work more congenial and more profitable.

I want you to know I appreciate the helpful hints BUILDING AGE AND NATIONAL BUILDER gives me.

Yours truly,
JACK D. PAUL.

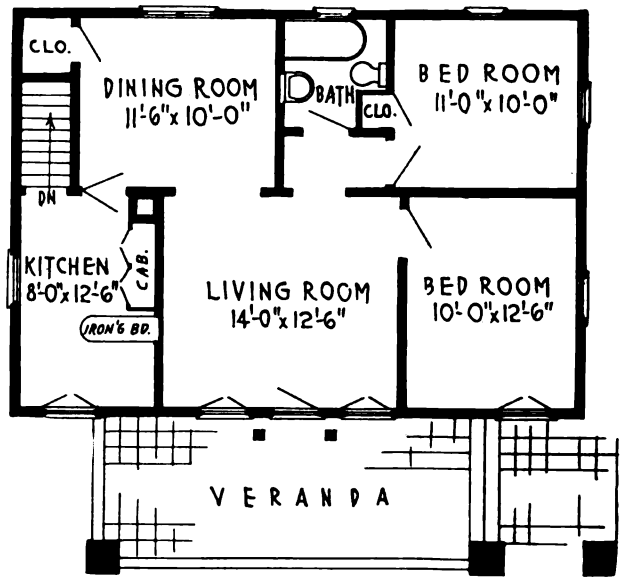
A Story of Success

TO our letter we received a reply that is so frank a statement that we publish it unchanged. We could not write a story that could tell more:

Gentlemen:—

I am forwarding photograph of myself and blue prints of the photographs which you already have on hand. You have my consent to publish these for readers of BUILDING AGE AND NATIONAL BUILDER.

Since you have asked me, I shall attempt to give you a short history of my business career. I am thirty-one years of age, and for seven years prior to the war I was a travelling salesman. My last position was with the Loose-Wiles Biscuit Company, St. Louis, Mo. My brother, Albert J. Paul, travelled for the same company for a period of about ten years. During the war, while we were both in service, we decided to enter the real estate business on a brokerage basis upon our return. Before these plans had

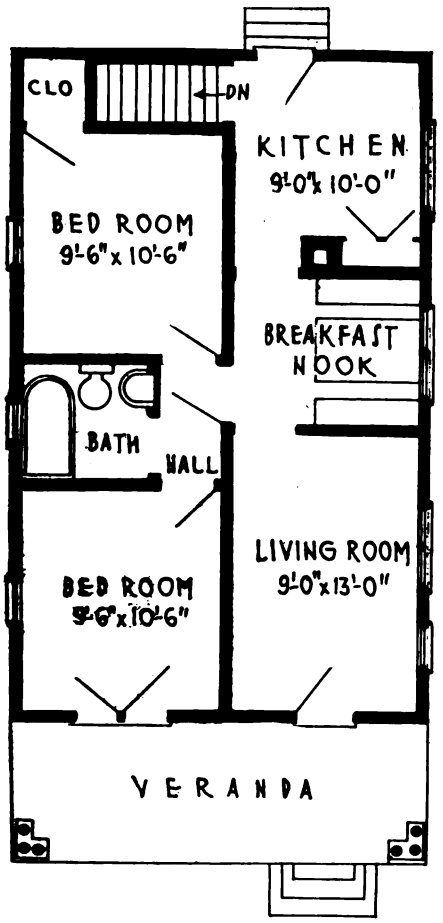


THE little sign reads "The House That Jack Built." It stands for individuality and quality. The builder is seen standing next the mark of his successful efforts in the building field.



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"I can highly recommend Building Age and National Builder as my business has increased fifty per cent since I have profited by its contents and I am building better and higher class homes."



materialized, however, my brother contracted bronchial pneumonia and died overseas.

Without my brother I was at a loss to know whether or not to carry out the work which we had so firmly decided to try together. Finally, it



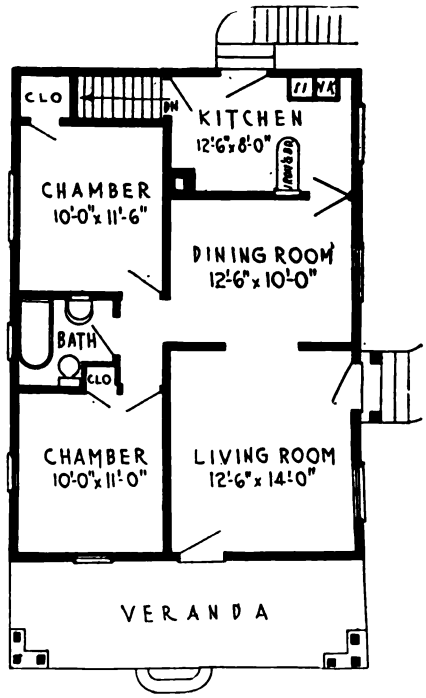
A striking example of what good taste and a knowledge of design will do. Plan shows ample room and good arrangement.

seemed the best thing to do and I entered the brokerage business with a former competitor, a great friend of mine. We worked on a commission basis, listing and selling real estate. These operations covered a period of three and a half years.

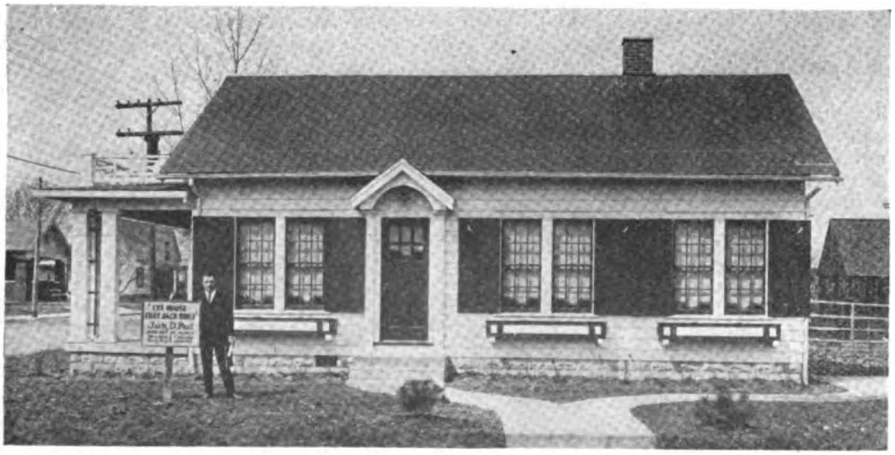
At the end of that time my partner was fully determined to continue with his work, while I realized the possibilities in the building game and wished to associate myself with this phase of the field. We dissolved partnership and I struck out for myself.

For several years I worked on one house at a time, hiring men for each job. This plan, however, soon proved unsatisfactory and I adopted the scheme which I am now using of building homes in lots of from ten to twenty-five at a time. I am able to contract for the entire lot with one mill for the millwork, with one plastering contractor for all the plaster work, another contractor for the electrical work and fixtures, and the same all the way down the line. Furnishings, plumbing and a thousand-and-one items of equipment are all supplied on a wholesale contract basis with the result that big economies are effected. Moreover, I find that this method entails much less work for myself.

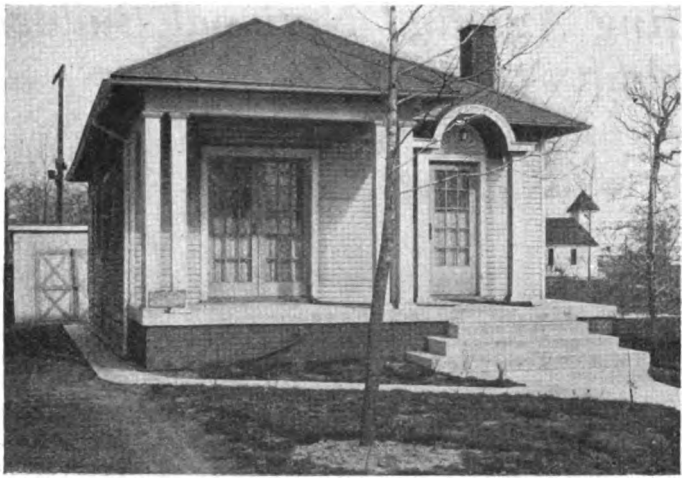
I act as my own architect, see after my own buildings, and the



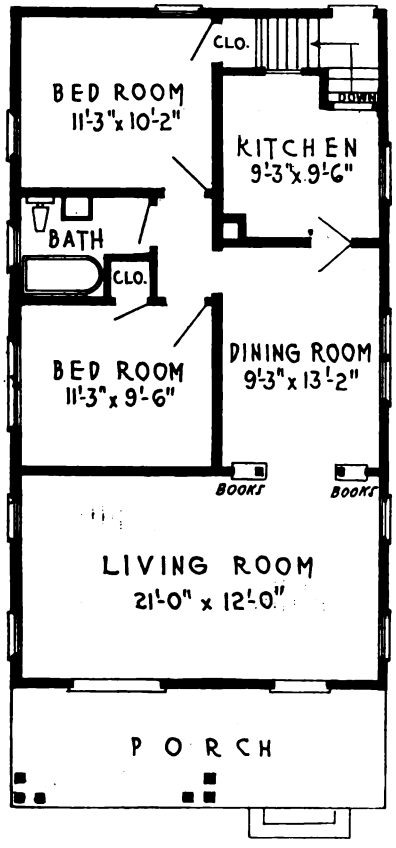
ANOTHER home to which the stamp of approval has been given. This design includes five rooms and a bath —convenient homey quarters for a small family. Cost is moderate and quality unusually fine.



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THIS little home has a plan containing five rooms and bath. Between living and dining rooms are two well designed built-in book cases—a feature that reflects the individuality of all "Homes that Jack Builds."



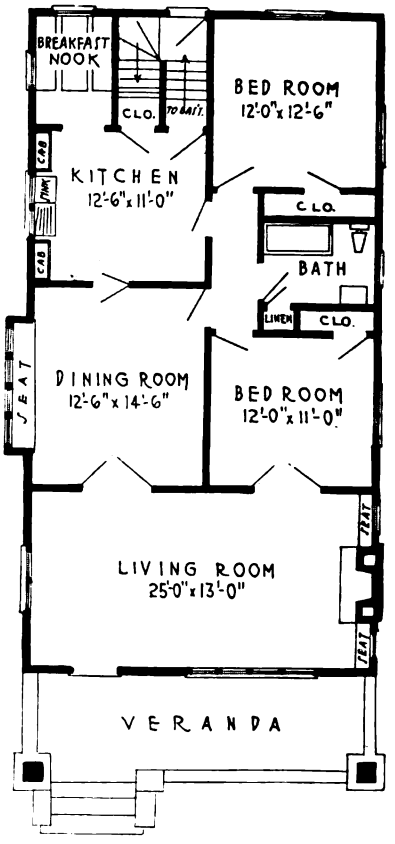
only help needed is that of a bookkeeper and stenographer. The design for each home is my own. I never build two homes alike. Here, however, BUILDING AGE AND NATIONAL BUILDER has contributed largely to my good fortune. While I do not follow exactly any of your own plans, I extract from the pages a little here and a little there and embody the ideas in ten or fifteen houses into a harmonious plan of my own. I cannot, of course, copyright my own plans, and the result is that I have adopted a slogan, "the house that Jack built," to give my designs their individuality. By this I mean that "the house that Jack built" is something different from the ordinary and I make a special effort to give each one its own artistic touch.

I also take trips, sometimes four, sometimes six each year, to the large cities and go into new additions to get new ideas. Being a bachelor I can do this and I find it helps me inestimably. This spring I was in Chicago and went through Evanston and several Chicago suburbs to get new ideas. I was also in St. Louis and University City and, during June, in Indianapolis and Louisville. Very often I act as a delegate for an organization meeting in Milwaukee. While on trips to these different places I always find it worth my while to tour the suburbs for building ideas.

So much for the source of my design material. You will see by this that I believe it of utmost importance to keep wide awake in the matter of adopting new things going on around me.

Regarding the actual construction practice which I follow, needless to say I find it advantageous to use the best of everything. Briefly, I use stippled walls consisting of five coats with starched finish. All baths are tile as are the kitchen floors. For built-in features I have the utmost respect, such as kitchen cabinets, ironing boards, breakfast nooks, clothes chutes, waste chutes, stationary tubs and letter boxes.

A little time spent on the wiring of the home has always repaid me through owner-satisfaction. Side lighting in living room and dining rooms I control by double switches. Convenience outlets are installed freely throughout. Each room I finish in a different color with the woodwork in a two-tone effect and a





MARKED by an interior of commodiousness and homey comfort is this attractive home. A breakfast nook, ample closet space, and many built-in features are included among its items of equipment. Exterior is both modern and harmonious.

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small black band molding throughout the house. In bedrooms three or four light clusters of ivory fixtures have met with a great deal of favor. The built-in idea is carried to the bathroom and embraces such items as steel medicine cabinets, chests of drawers, linen closets. Also in the back of each bedroom door I place a large mirror. Prospective purchasers are sold by these little conveniences.

Good building practice is remembered in the construction of my porches as well. Reinforced steel concrete is used, checked off in red concrete tile effect. Between porch columns I put different designs of lattice work. On two of the plans shown you will see how walks have been designed and finished in this red checked tile.

In landscaping the grounds I find it has paid me to employ the services of a professional gardener. I favor the Southern Colonial style and this is shown to the best advantage in its own setting. I favor this probably because it is most popular with the young people of the city who prove to be the most active purchasers.

To give you some idea of how these ideas of mine work out in actual sales, I have at the present time eleven homes under construction. Remember, these are not yet completed and already nine of them are tagged with "Sold" signs.

The financing of my homes cannot be so simply explained. As they say, it would take a Philadelphia lawyer to set forth the precise methods used to budget "the houses that Jack built." I prefer to build my own homes and sell them when completed rather than to build for a buyer on a contract basis. To follow plans and specifications of some prospective purchaser is O.K., of course, but the difficulty is that a house never shows up to best advantage until it is completed.

Suppose then I build a home, including lot and garage, for $7,500. Generally about $2,500 seems to be a fair first payment, leaving a balance of $5,000 to be paid monthly at $75 per month including interest at 7%. For my own part, such a home is good for a loan of $4,000 at 6%. The profit generally runs about $1,200, or, including my loan and initial payment, I receive $200 for my profit and still have an equity of $1,000 in the house.

I never discount my paper to take a load from myself, but follow this plan.

There are many wealthy people owning vacant lots in this city and are not ready to build on them. So I try to trade *my* real estate subject to the loan which they assume and also the contract of purchase. By this scheme they receive $75 a month on the contract and 7% interest. The regular monthly payment in equity goes to them, and after they pay the interest on the first mortgage they receive 1% on the first mortgage from the buyer.

It is easily seen that these parties would rather put their money in homes that are already sold on contract, for they retain the abstract and deed in their name until said contract is paid down to the amount for which they can place the contract with a bank as a mortgage loan. The building loan associations would, of course, be equally valuable in this case.

There are a number of methods of financing along somewhat similar lines, but to my mind there is none which will stand as quick a turnover as mine.

I trust that this will be of benefit to some subscribers of BUILDING AGE AND NATIONAL BUILDER.

Yours respectfully,
JACK D. PAUL.

Mr. Paul has left little for us to say in regard to his successful business methods. The slogan, "the house that Jack built," he emphasizes in all his advertising and on a sign placed in front of every building operation of his.

His policies are sound, they are successful, and every builder will do well to consider them thoughtfully. We certainly congratulate Mr. Paul on his success, and are glad indeed to number him among our subscribers.

His story is one of the "True Stories" from life—that of a good American citizen. Our country has right to be proud of such citizens—they have placed the U. S. A. in the proud place we hold among other nations to-day.

Editor.

The Decorative Value *of* Window Shades

EVERY little detail added to a house will add to or detract from its appearance and this is as true of window shades as any other item.

Usually exterior walls are just blank spaces and color at the windows gives just the touch that will add warmth and attractiveness to the design.

There is also real sales value in having correctly colored shades for windows, especially so if the house is erected for sale. Shades instantly give the house a homey look instead of cold, uninviting appearance. This appearance is not only on the exterior but also in the interior as when a prospective buyer walks through a new house it looks empty and forlorn but the addition of window shades takes away, to a great extent, the deserted air and gives it the homey atmosphere.

Modern shade manufacturers are now producing window shades in a large variety of coloring and textures. It is now possible to obtain duplex shades with one color on one side and another on the reverse side.

The color of the shades facing the interior of the house should harmonize with the wall decorations of each room. Now, as all these rooms face the street, the shades should, of course, all be of one color, so as to harmonize on the exterior. Here is where the duplex color shades solve the problem allowing color harmony from outside as well as within.

Next to having well made shade material of the proper color, it is necessary to have a proper and efficient shade roller with fittings. Several manufacturers are now making high grade articles of this sort, and the best results are obtainable at moderate cost.

There is an added selling point for a builder to take a prospective owner over to a window and show how easily the shade works and the fine material used, harmonious coloring, etc.

It is for this reason that we think builders should give particular attention to supplying the right shades with all their houses. It is an added bit of service that has real dollar and cents value.

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Every Progressive Community Has Its

CHAMBER of COMMERCE

And Many Are Housed In Fine Buildings They Own
Here is the New Home of the
JERSEY CITY CHAMBER OF COMMERCE

William Neumann
Architect

James Mitchell, Inc.
Builder

SEVERAL years of active work on the part of the members of the Chamber of Commerce in Jersey City, N. J., have been crowned with success and their new building will soon be ready for occupancy.

The illustrations here given show that the building will be a credit to the men who have been interested in obtaining it. For thirty-three years this commercial organization had been only a tenant in its executive offices when a determined attempt was made to end such a condition and erect a proper home. The membership at that time was over 1,800 business and professional men.

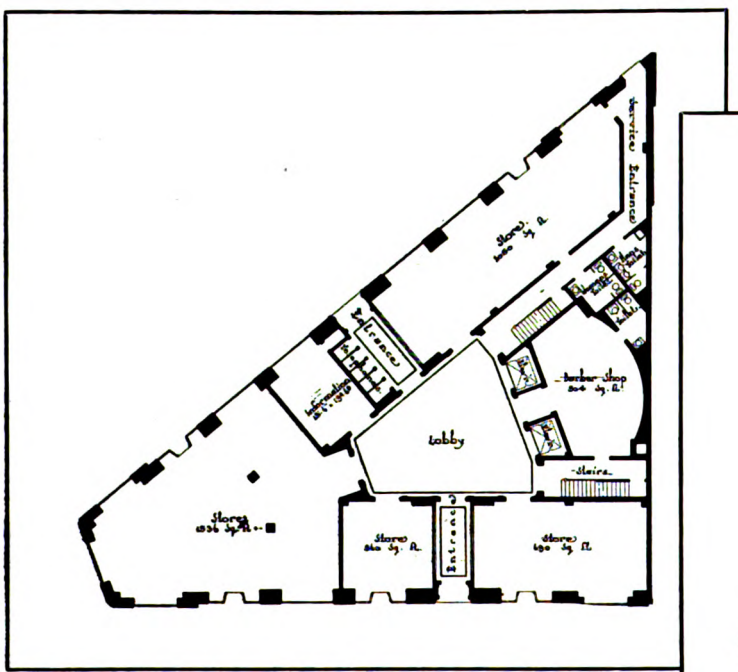
In seeking a design for a building five well known architects were invited to enter a competition from which a plan would be selected. The building shown is the result of the labor of the Jury of Award. Three years were spent in financing and the building is expected to be ready for occupancy before the end of the year.

The house committee has been so successful in securing tenants that an additional story has been added. The building now has four office floors where but three are shown in the architect's perspective drawing. It is the first Chamber of Commerce building to be erected in the state of New Jersey.

The building is located at the junction of three streets. The intention at first was to have three entrances. The corner, however, was later found to be too valuable to be given over to public space, so it was turned into a store.

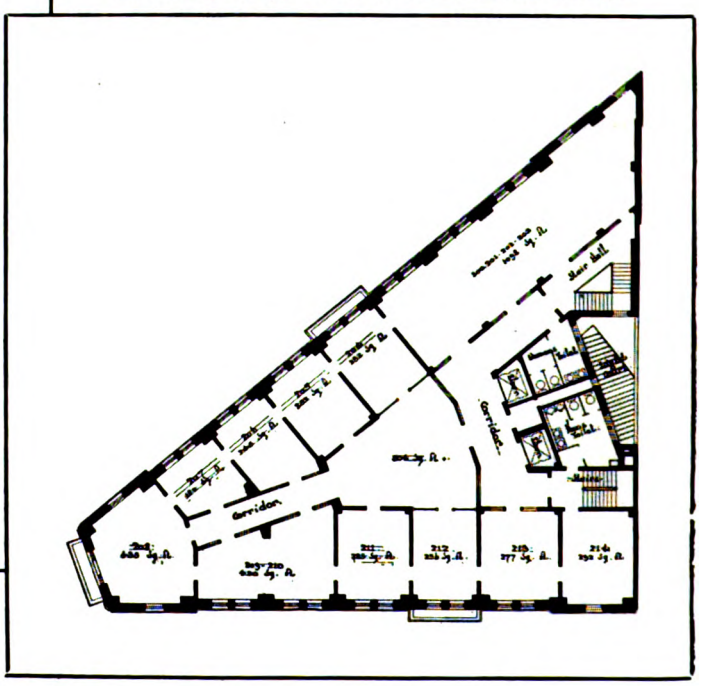
There are two entrances to a beautiful rotunda in the center, which gives ample lobby space for visitors. There are two elevators and an Information Office. In the lobby are railroad and theatre ticket agencies and a cigar and news stand.

Two-thirds of the second floor is occupied by the Chamber of Commerce. There are nine committee rooms with arrangements for the supply of meals from the restaurant in the building. In this manner much may be accomplished by committees working around the table during luncheon hour. Several com-

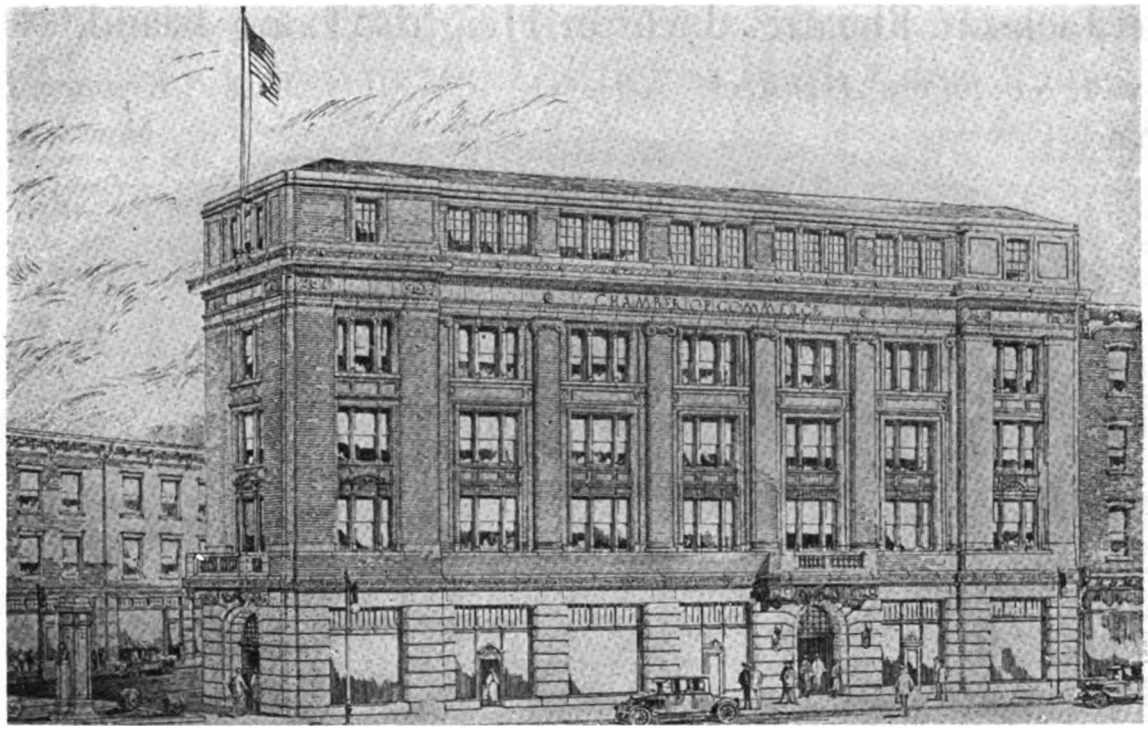


The ground floor contains stores, barber shop, cafeteria, information service and lobby. This forms a group of services calculated to impress visitors with the value of a Chamber of Commerce.

The second floor is the headquarters of the Chamber of Commerce. Here the visitor to the city finds an exhibition room of goods manufactured in Jersey City, with an attendant in charge.



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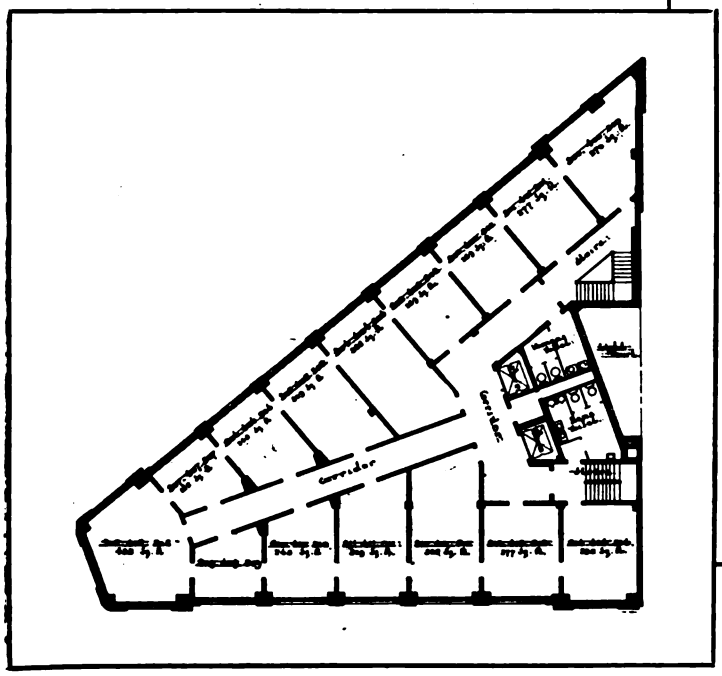
The Newark Avenue front of the Jersey City Chamber of Commerce building

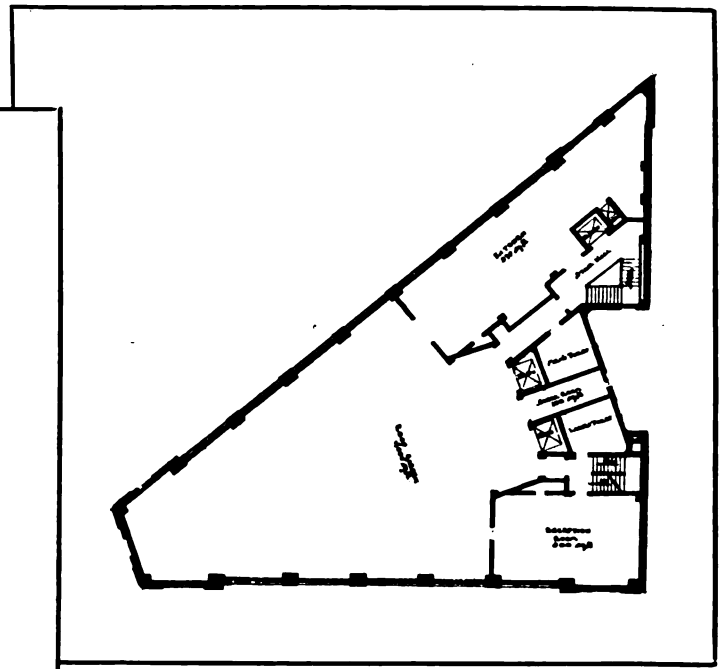
mittees may be in session at one time without interference with the work of the permanent staff.

Rooms are provided for the Manager, the Consulting Engineer, the Traffic Manager and the Industrial Relations Secretary with offices for the stenographic force and clerical staff between. There are a total of 45 offices, some of which on the upper floors, it is believed, will be used as living apartments by professional men who will have offices in the building.

The exterior of the building, as may be observed from the reproduction of the Architect's drawing here given, is very pleasing. It is dignified and befitting the association which will occupy it. The interior is to be decorated in a manner that carries throughout the same impression of good taste, dignity and progressive conservatism. It is a credit to the Community, to the Chamber of Commerce, and their architect. More of this type are needed.

Typical plan of the stories above the second. Some of the rooms will be occupied as offices and on the upper floors there are to be high grade apartments with all modern conveniences.





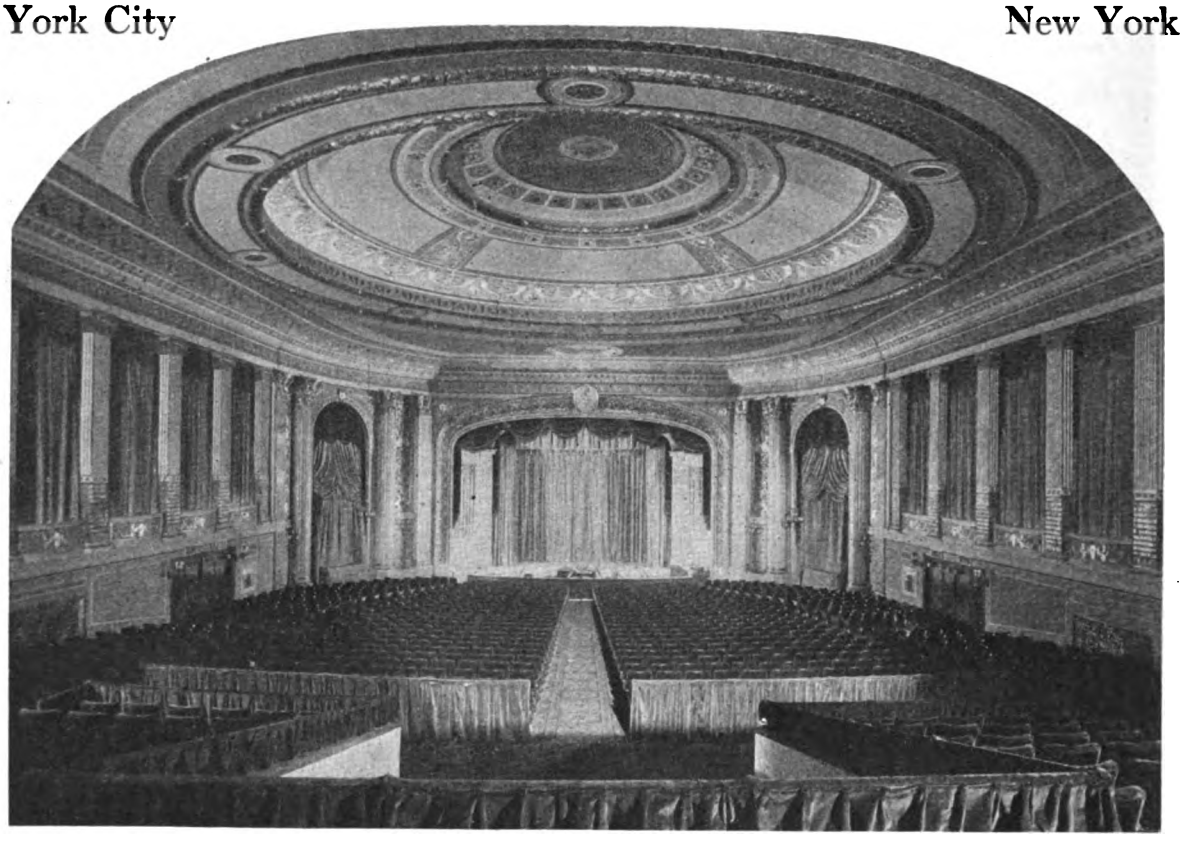
The roof is an enclosed roof garden. Here will be held many public functions. It is to be a dance hall between whiles, with first class roof garden restaurant. The view from the roof is superb.

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The Jackson Theatre, Jackson Heights, Long Island, N. Y.

Charles A. Sandblom, Architect
New York City

Max J. Kramer, Builder
New York City



The Back Lot Theatre

OBVIOUSLY the best location for a moving picture theatre is on a street where the greatest number of people do more than pass to and fro. It is the street where the greatest number of people spend some of their time and are not in a hurry. This of course, is the street where the retail merchants offer the best inducements to purchasers. It is known as "The Shopping Center."

One good store may, occasionally it does, create a center to which other retailers will gravitate. It has happened that a newcomer in a flourishing place created a new business center after negotiations to



The lobby. Entrance and cloak rooms on right.



The Auditorium. Projection booth in closed gallery.

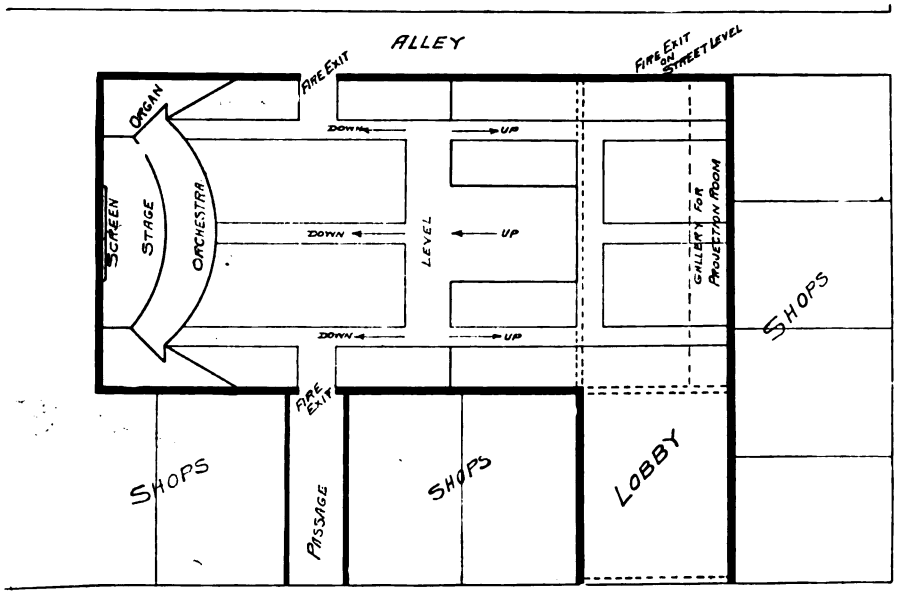
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A Solution of the Problem of How to Build Movie Theatres That Will Pay in the District of High Land Values

secure a place in an already established business center have failed.

The moving picture theatre, however, is not able to do this. Many a promoter has come to grief in trying to operate a theatre slightly off the beaten track, merely because land values were too high in the district where the people went daily in the greatest numbers. Occasionally a theatre has had a fair run of success on a side street, only to shut its doors after another theatre has secured a site more conveniently located for the crowd.

The problem for the moving picture theatre is to find land not too costly in the heart of the retail district. The solution was discovered by a manager who, without the slightest doubt began his managerial career in his boyhood days when he utilized the family barn for theatrical shows and charged an admittance fee having a unit value expressed in pins. This manager discovered that many building lots are much deeper than is necessary for strictly retail shops. Department stores are in another class.



Sketch plan showing arrangement of typical back-lot theatre. The lobby extends the full depth of lot with fire exit to alley.

Then began the career of "The Back Lot Theatre." The accompanying sketch plan shows the essential features. Property is acquired which is resubdivided into shallow lots. This is done sometimes on the residence side of a street the other side of which is beginning to be encroached upon by business. Occasionally a street is chosen on the outskirts of the business district, a street along which commuters find their way each morning and evening.

On the shallow lots are erected buildings admirably adapted for chain stores and shops where articles of luxury are sold. Shops of the attractive kind that hold an appeal to those who must pass each day. Here the commuter may make the purchase he forgot to make in the city, when on his way home he sees the article in a window. Such reminders are better than strings tied on fingers. The shops put the street on the map and the moving picture theatre follows.

The plan generally is similar to that shown on the sketch. A corner lot is left for a drug store or ice cream and soda parlor. The adjoining interior lot is used for the lobby, which extends through to the alley. In the back between the shallow lots on the main street and the alley in the rear the theatre is built. On one side, about the middle of the depth there is an emergency exit to the alley. On the opposite side another exit leads to the street. In several such locations the street emergency exit is used at all times as an exit and the sides of the passage are show-windows. On the alley end the main lobby also has an exit for emergencies, such as fire or panic.

The small shops usually are open late and shopping is a part of the evening pleasure. The family goes early to purchase goods in the stores and ends the task with a visit to the show. The Jackson Theatre in Jackson Heights, Long Island, a suburb of New York City is one of the most handsome back-lot theatres in the country. It has a capacity of 1,500 and in arrangement is typical of the class. It is located less than one block from an elevated road to Manhattan.

A bank is on the corner nearest the elevated road. A row of small shops lines the side of the street on which the theatre is built. On the opposite side is a row of residences. It is an interesting example of a home theatre in a location where all the activities of a family suburban district are assembled.

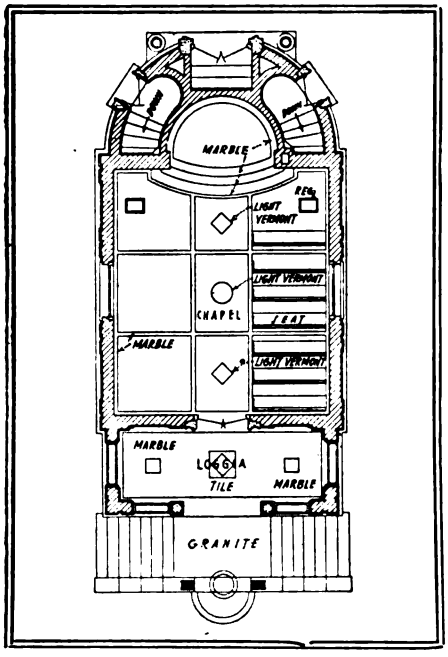
The entrance is wide, with tiled walls and mosaic floor. The ticket booth is on the right as one enters. Eight glazed heavy doors divide the entrance from the lobby proper. The latter is carpeted and extends the whole width of the theatre.

On the left is the office of the manager, the entrance to the auditorium, a smoking room for men, a rest room for women and various other conveniences, now deemed to be indispensable in all first class places of amusement. The rise required for the seats in the auditorium provides space underneath for the necessary offices and other rooms.

The lobby is provided with lounges and large chairs and is nicely lighted in a most artistic fashion with wall lights shielded with parchment shades. The walls are of travertine.

The entrance to the auditorium is by a ramp with an easy rise. The aisles are well arranged with a view to quick emptying of the theatre. The pitch is easy and not difficult to ascend and descend, yet the rise of the seats is such that each one affords a good view of the screen. The projection room is in an enclosed gallery that runs across the full width of the auditorium.

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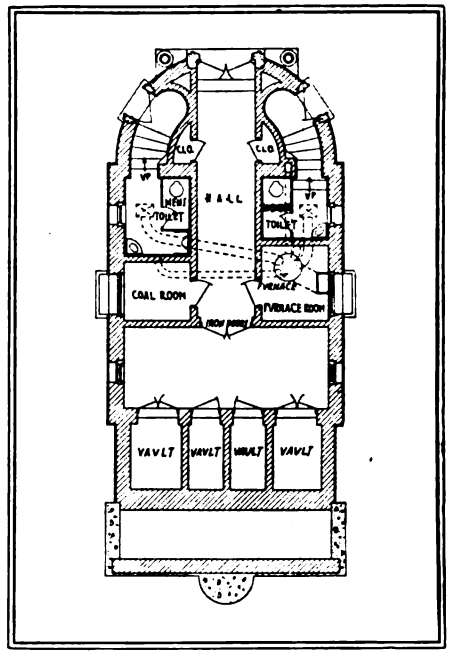


Elm Grove CHAPEL

Mystic, Conn.

James Gamble Rogers, Architect

A MEMORIAL Chapel should foster in the minds of those who view it, a feeling of reverence for the departed. This chapel in its quiet magnificence impresses one in that manner and, moreover, carries its own appeal of architectural beauty.

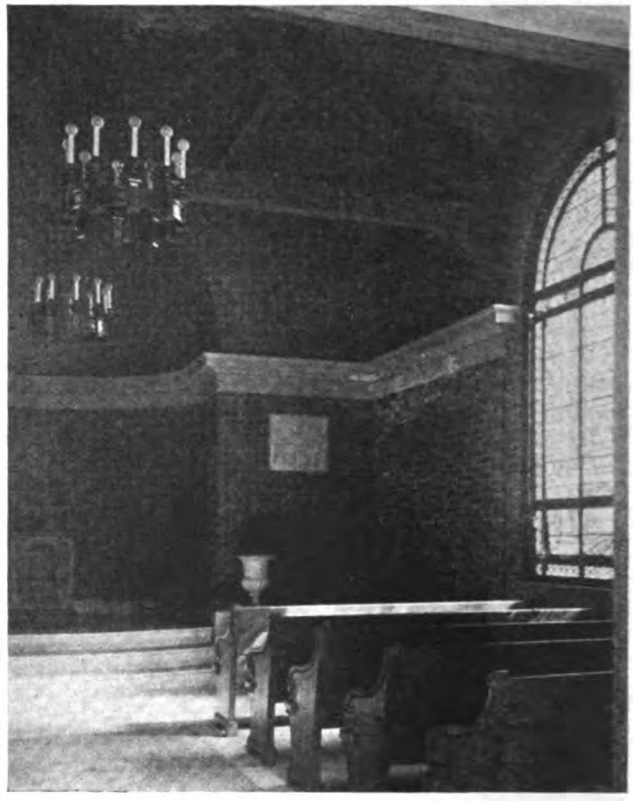


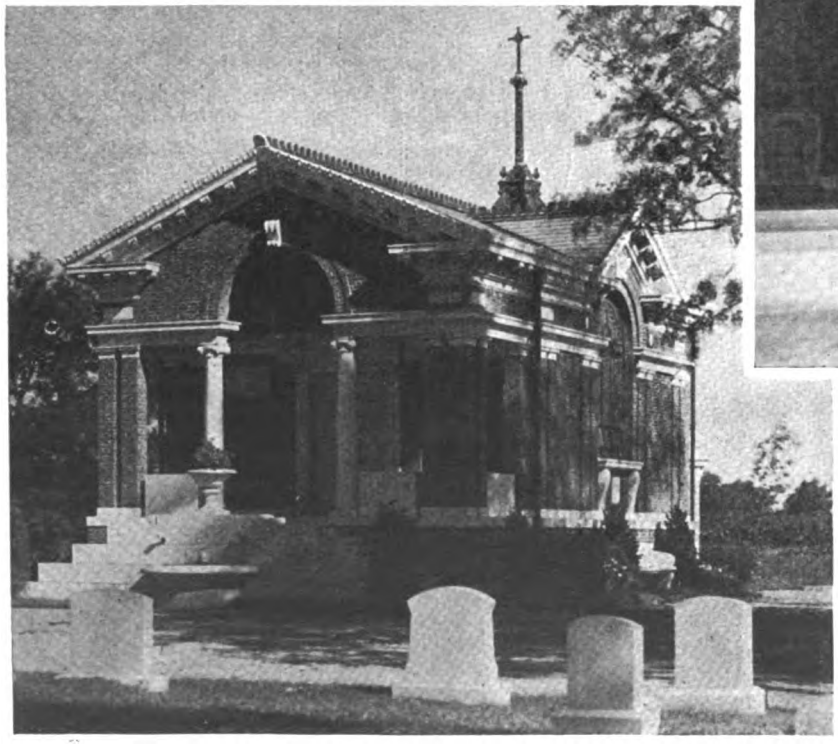
ON the front of this beautiful little Chapel is inscribed:

In Loving Memory of
Thomas Stillman Greenman
and
Charlotte Rogers Greenman

This is their final resting place and it is a sanctuary of serenity and peace. Surrounded by those tranquil scenes that mark our countryside, it stands a fitting tribute to those in whose memory it has been created.

Seen from the front, the steps, with their Ionic columns, are of granite, standing out against red brick walls and piers. Inside, stained glass windows spread mystic radiance over stone flooring, cast with shadows of the worshipers' seats. Overhead, wrought fixtures provide evening illumination.





Nothing has been spared in quality to make this chapel an architectural gem. Only the finest granite and the finest marble have been used and these stones have been worked in with excellent taste.

In the basement are four vaults while behind iron doors are a hall, a furnace room, and stairs giving access directly to the outside. Thus the vaults may be reached from the two doors facing rear.

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THE EDITORIAL PAGE

August Construction Breaks All Records

IN simple figures we give on another page reports of the building contracts awarded in August. It is the highest total of construction contracts awarded on record, beating the wonderful record of March this year and is a 66% increase over August, 1924.

Truly, the record for 1925 will certainly stand as a most wonderful one when it is remembered that the usual course is for the volume to decline in both July and August. In this year they actually increased!

All in the building crafts are indeed now enjoying an era of prosperity. Let us all buckle down and do our best to master the difficulties in a thorough manner so that we will please the general public on whom we must all depend for our living.

The House on Our Cover



THE very attractive cover design this month shows one end of the artistic house shown in this miniature. It was designed and built by Walter Pleuthner, architect, for his own occupancy. It is located at Scarsdale, Westchester County, New York.

Fire Prevention Week

THIS year October 4th to 10th has been designated as Fire Prevention Week. The National Board of Fire Underwriters is making efforts in many directions to educate the people against carelessness, and many of our building associations have also joined in the movement by supplying information on how to build fire resistant houses.

There are a number of incombustible materials on the market and their use is advocated wherever possible. Even where economy in construction cost is of paramount importance the danger points can be effectively taken care of by having some incombustible material on that particular section of the construction where it is most needed. Poor construction is usually due to carelessness or ignorance of the right way of working. To make a place reasonably fire safe does not require much expenditure either for materials or labor.

We can do much if we but build right.

Profitable Side Lines

DON'T forget that there are quite a number of buildings in your home town that can now be improved greatly by the introduction of storm sash, weather stripping, etc. A little soliciting will enable you to get this work and with the excellent patented weatherstrips now on the market there is a chance of performing a good service to your neighbors and keeping your staff employed with profit to yourself.

Safety Work

MUCH credit for the cutting down of accidents in construction work is due the National Safety Council. There are still, however, entirely too many employers who forget the humanitarian angle of the safety movement and take into consideration only their own small financial loss.

We should remember that our workmen are our greatest assets in the building industry today—labor is almost 50% of the total cost of a modern structure—and therefore we should give greater thought to the conservation of their lives and limbs so that we can carry on our immense building program as speedily as possible.

Winter Building

DON'T be afraid to solicit business now for work to carry on through the winter months. There are many advantages—financing may be easier, materials quickly secured from stock, and contracts easier obtained because you can promise the owner delivery of the building much easier so that returns on the investment will begin to come in that much quicker. Modern methods of enabling winter work to proceed enable the builder to overcome all difficulties due to cold weather. Even concrete work can safely be done in very cold weather without danger of freezing if proper precautions are taken. There is no reason why building should not continue for the whole twelve months for every builder.

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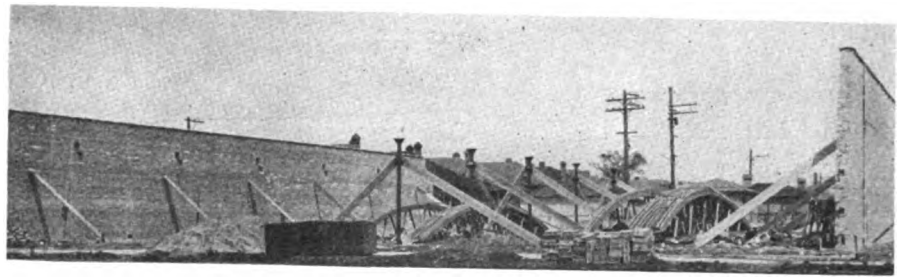
BRACING

Plays a Big Part in the Construction of Large Garages with Trussed Roofs

By Roy M. Singer



THIS is the type of building, the construction of which is the simplest, provided due precautions are taken. At the right is a view of the job impressing one with the many braces used

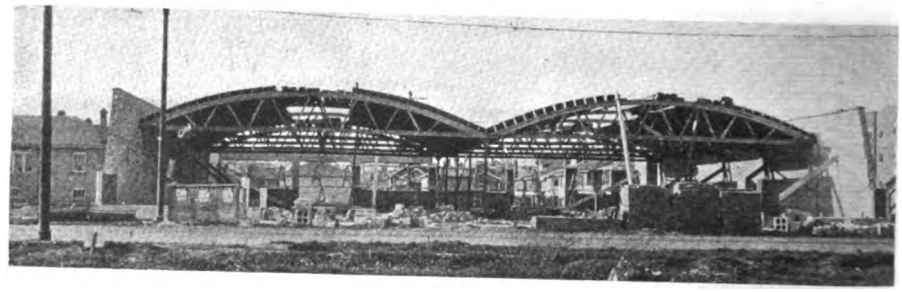


ROOF joists and sheathing should be put in place before heavy wood trusses are left, as temporary bracing cannot be depended upon in high wind. Shown are trusses in place and tied in

IN these days when almost every man owns his own car the garage problem has become a very acute one indeed. In the city particularly is this true. A large majority of the population live in apartments rather than one and two-family homes, and have no provision for private garages. The "backyard" of the small town is not to be found in an apartment neighborhood, and tenants are forced to find shelter for their automobiles in what we have come to know as the "public garage."

In the smaller communities as well, this type of structure is becoming more and more noticeable. From the builders standpoint it is unique in that it really nothing more than a shed—four walls covered by a roof. It is necessary, however, to cut down to the smallest possible number obstructing columns. Wood or steel trusses of extremely long span are used, supported on steel columns and brick-bearing walls.

Builders who have been identified with work of this sort realize that the greatest problem lies in keeping the various units in place until the building is finished and they become self-supporting. It is therefore necessary that proper precautions be taken if the builder does not wish to have the work to do over again.



Contractors are too often neglectful of this point, and accidents are constantly occurring where this type of building is going up. It is an easy matter and an inexpensive one to provide proper temporary supports for the prevention of accidents. This step is best done by supplying sufficient bracing to cover the job throughout and to prevent any of the units from toppling.

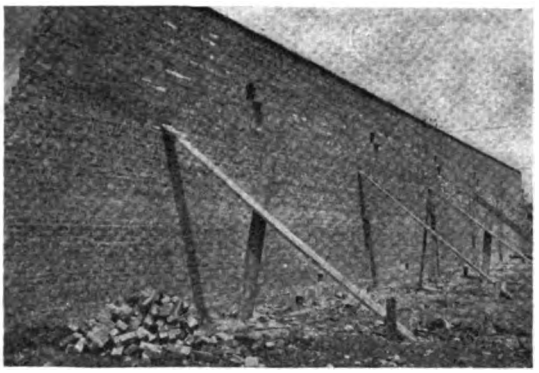
Long stretches of green wall, tall columns, heavy wood trusses—represent the items which may cause trouble. Much of the difficulty, however, may be avoided by resorting to the methods illustrated here. They represent the many dangers.

When either wall has approached a dangerous height, every precaution should be taken to brace it firmly

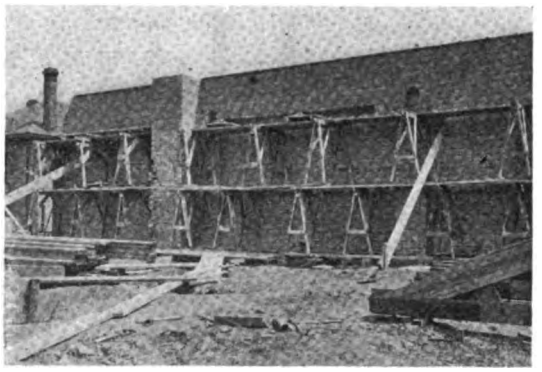


SOME sort of easily erected device is best for lifting trusses in position. Here is illustrated a "Dutchman" used on one job with good results. It is as simple as any

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VIEW looking down the wall showing bracing spaced about 20 feet on centers. At the top, these are fastened to 2 x 4 in. blocks set in wall



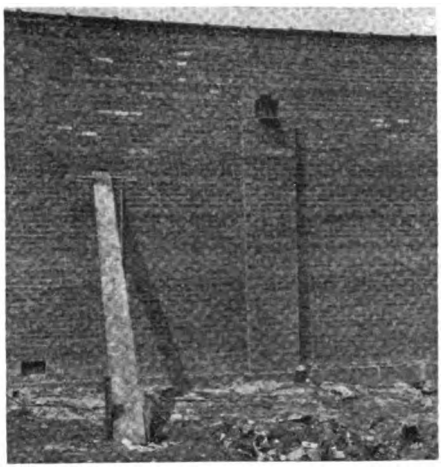
A HORSE and plank scaffold was all that was required on this job. For placing coping, an extra plank was set on a few loose bricks

and prevent its toppling. One illustration shows such a wall with bracings spaced 20 feet on centers, each is firmly fixed at the bottom with stakes driven into the ground and stiffened at the center by means of vertically placed joints. At the top they are fastened to 2x4" blocks built into the wall.

Another picture taken on one job shows how heavier construction was used at the point where the roof truss was to be placed. This, of course, is to care for the contemplated load delivered by the trusses. A steel anchor plate, set into the wall, serves not only as a plate upon which the truss may secure a seat, but also holds truss to the wall.

Heavy wood trusses should not be put in place until at least part of the roof joists and some of the sheathing are ready. This is necessary because extremely firm bracing is all that can be depended upon to hold trusses in a high wind.

The end truss of course, has no roof joists to brace it and can best be held in place by a diagonal such as the one shown in an illustration. Or for safety's sake, two or three may well be used. It is best to allow this factor of safety.



WHEREVER a roof truss was to be placed, the wall was made heavier. Note steel anchor set in wall

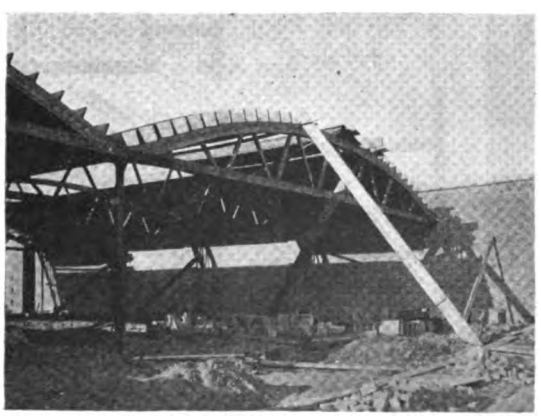
A WOOD collar may be built around column collar and braces set in two directions to hold it firmly



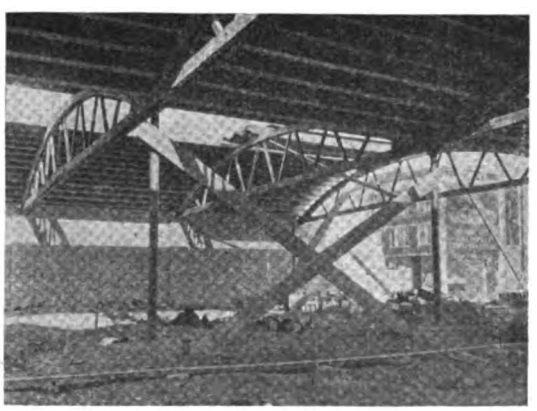
The manner of bracing steel columns before the roof trusses are set upon them is very important. There is, of course, little danger of them toppling over and causing a serious accident, but they should be so fixed that when the trusses go into position, undue plumbing of the column will not be needed. Very often a wooden collar is built around the collar at the top and two braces furnishing support in two directions fastened to it.

After the trusses are in place they serve to brace the columns laterally and the temporary bracing is taken down. It is by far the safest method to leave the longitudinal bracing in place until the entire roof is on. It will insure the columns withstanding any trust from the roof trusses.

This whole discussion does not strike at the contractor who is already exerting every effort to insure safety on the job. Most builders see to it that accidents will be prevented while building is going up. There may be found however several suggestions on bracing that may be put into use on the next garage job. A little money in extra material will be returned in added safety. Time economies to-day are vastly important.



PREVENTING the end truss from tipping by bracing it with a diagonal as shown. In this case, two or three braces would have been safer



THE lateral bracing of the column may be taken down when trusses are in place. Longitudinal bracing should be left, however, until entire roof is put on

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Have You Built A

NO more important movement for advancing the cause of home building has ever been inaugurated than this contest to discover "the best selling houses in America."

It is a contest which should be entered by every builder-reader of this magazine.

Ten gold medals will be awarded to the first ten builders. Fifteen engraved certificates of merit will also be awarded.

In all more than fifty builders will receive suitable recognition for their efforts in promoting a worthy cause.

We intend to publish in the paper, and later in book form, the designs and plans which have proved to be "best sellers." Two of them are illustrated on these pages.



ONE of these Gold Medals is ready for your name if your house design is one of those selected to show houses that the public buys. as one of the winners in this effort

We have set December 1 as the last day to receive entries. Your contribution is requested *now*. You will appreciate that an enormous amount of labor is required to check all of the data received and you will, we trust, send in your photographs and plans at the earliest possible moment.

This movement has been acclaimed by building men the country over, who recognize that here is a practical idea that will eventually help everyone in the industry to make more sales.

Join in this movement. You have every opportunity to be elected a "Gold Medal Builder of America!"

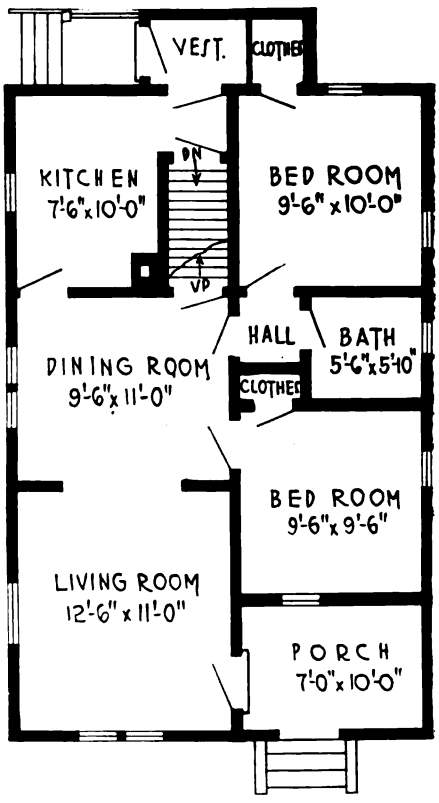
Why Not Enter Your Home Design in This Campaign for

The Best Selling Houses in America

The Last Day for Entries is December First 1925!



IS this home design to be one of the Gold Medal winners of its class? Thirty-six homes like this have been built and sold by the Morgan Company, contractors and builders, of Minneapolis. They are sold complete for $5,400, including the lot, in a well developed section.



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Gold Medal Home?

SIMPLY send us: A statement telling how many of each were sold, where they were located and the selling price of each, and a photograph of the house or houses which have proved to be "best sellers" with you, together with the floor plans.

We will recognize your courtesy in sending us materials for publication in this way:

1—To the ten selected as "first" we shall present (a) a Gold Medal; (b) an engrossed Certificate of Merit; (c) a life subscription to Building Age and National Builder; (d) a copy of the Book of Designs.

2—To the next fifteen (a) the Certificate of Merit; (b) a life subscription to the Magazine; (c) a copy of the Book.

3—To the next twenty-five (a) a year's subscription to the Magazine; (b) a copy of the Book.

4—To all others whose entries may be published, a copy of the Book.

5—No entrance fee is required.

6—The Editorial Board of this publication will pass on the facts submitted and make the selections.

7—Any information marked "confidential" will not be published.

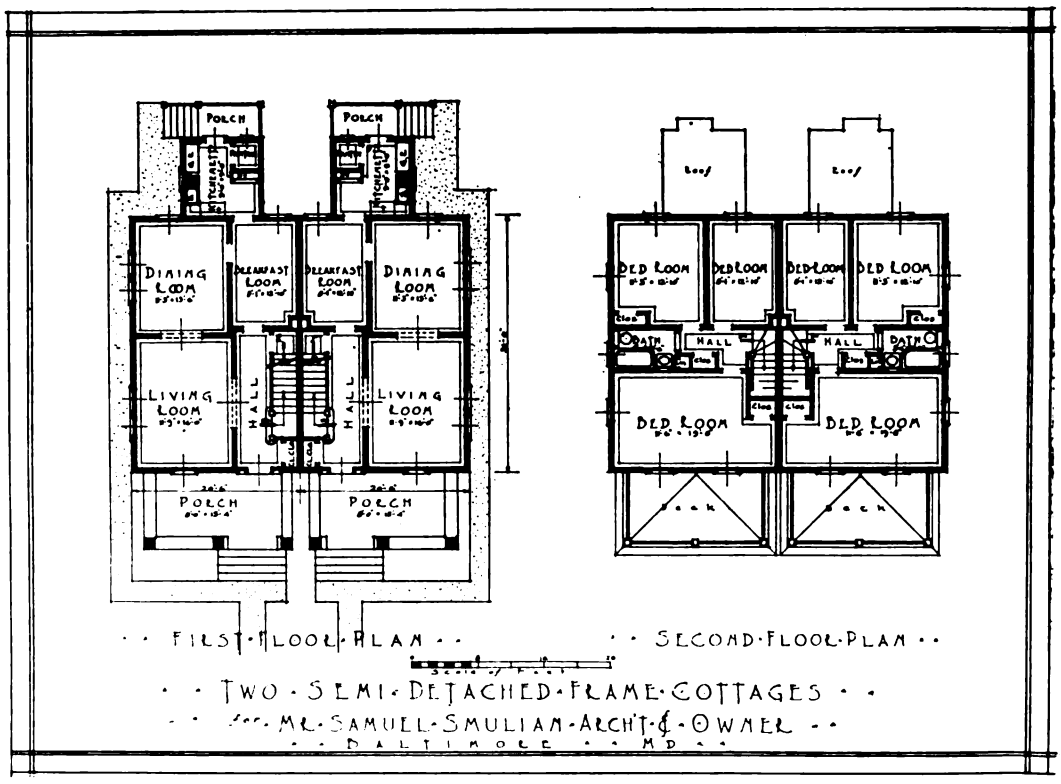
Address "Editor, Best Selling Houses,"

BUILDING AGE AND NATIONAL BUILDER
239 West 39th Street, New York

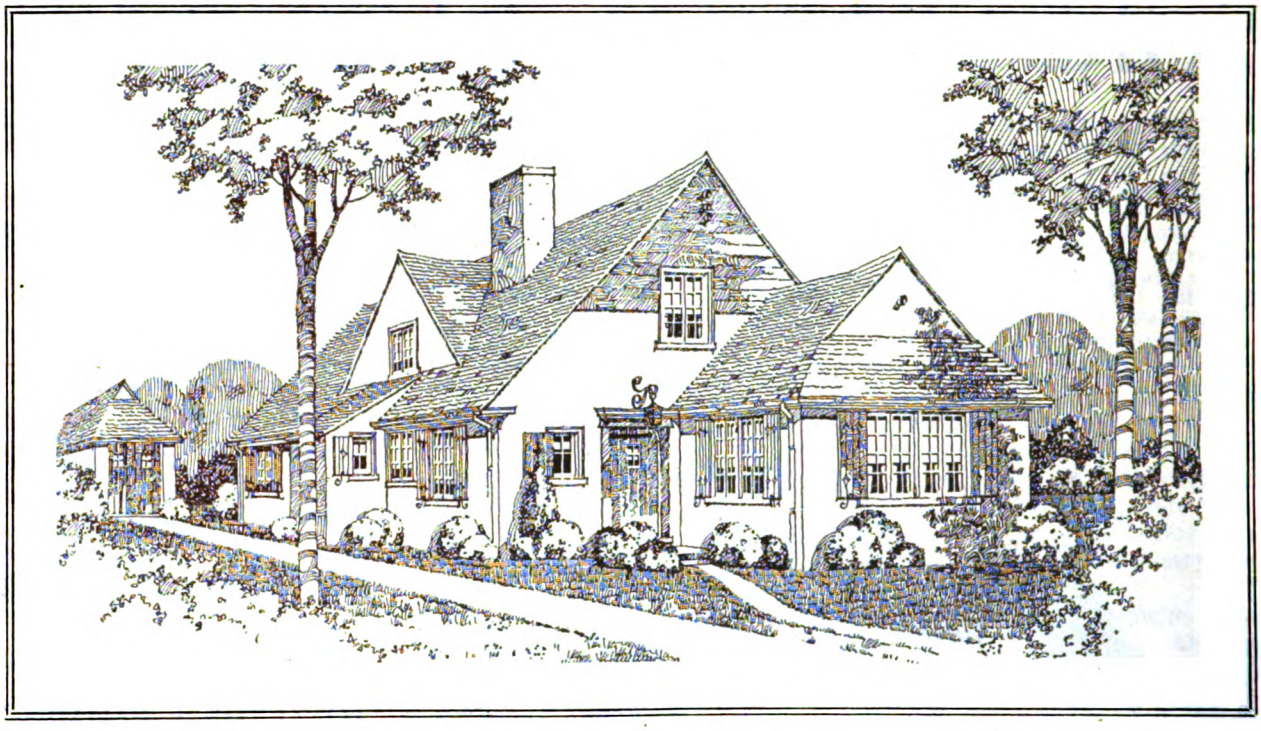


Above Are The Simple Conditions for Entering Your House Design In This Campaign *for* *Better Built Homes*

HERE is a twin cottage type of house very popular in Baltimore. This particular house is located on Belle Avenue, in Forest Park, and is sold with lot for $7,500. Will this be one of the Gold Medal homes of its type? Perhaps you have a design that has been a popular seller with you. Why not enter it in this contest? There is no charge or expense to you except sending us the photo and the floor plans.



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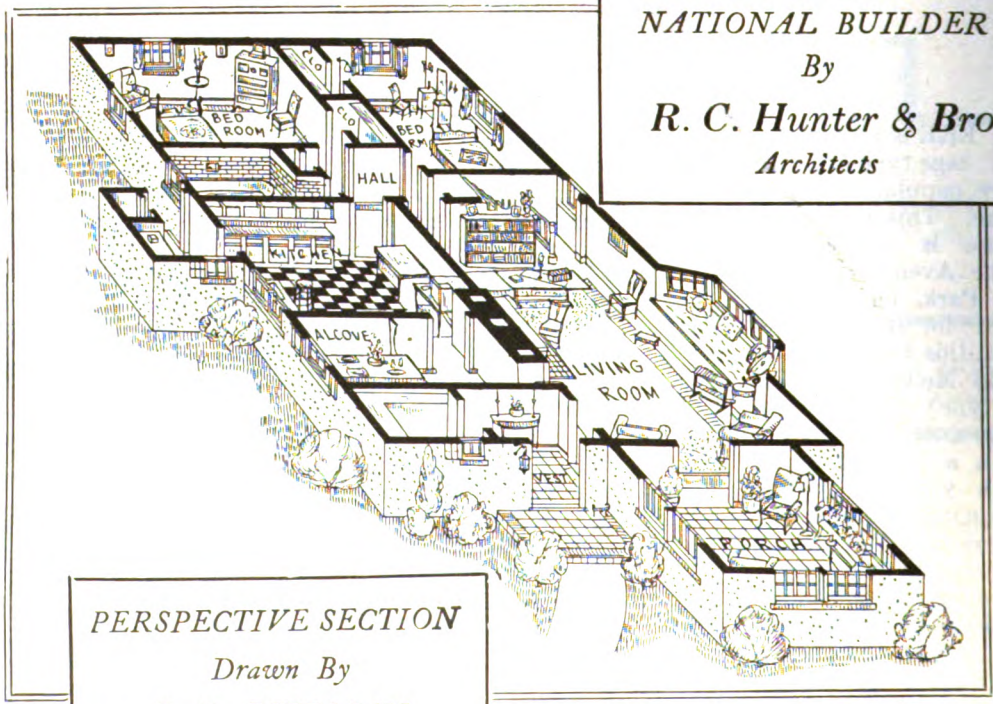


A Semi-Bungalow Home *of* Quaint Design

Designed Specially for
BUILDING AGE AND NATIONAL BUILDER
By
R. C. Hunter & Bro.
Architects

TAKE a stroll down the streets of our up-to-date suburbs and you will find many excellently designed homes following English cottage lines, but will not find very many bungalows, and it is for this reason that we think this little gem will prove more than welcome to our readers.

The house is of stucco, perfectly plain, but it is artistically relieved by a clever roof-handling, which snaps it out of the ordinary. The vertical half timber work so common in English design has been carefully avoided, but a decided novelty has been introduced in the front main gable by having its upper portion of flat rough boards, these to



PERSPECTIVE SECTION
Drawn By
S. R. BIERMAN

A Gem from England

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be stained in sharp contrast to the stucco bungalow.

The treatment of the roof over the sun-porch is also worthy of special mention as the half gable of the front is a decided novelty and very pleasing in appearance.

The design of the roof is such that it would look well in most roofing materials. One can use slate, asbestos shingles, wood shingles or the popular asphalt shingles, but for the sake of appearance the roof should have a mottled effect, that is, different colors of the shingle being laid at random and it does not matter—but rather adds to the charm—if here and there a few shingles are purposely made out of line, either up or below the regular course.

A rather charming effect can be secured by having the stucco in white, the roof in grey, and the little shutters either in blue or orange, and the front door may be finished

BLUE Print Plans and Specifications with Models of many Beautiful Homes of Moderate Cost can be supplied at a nominal price by Building Age and National Builder, 239 West 39th St., New York.

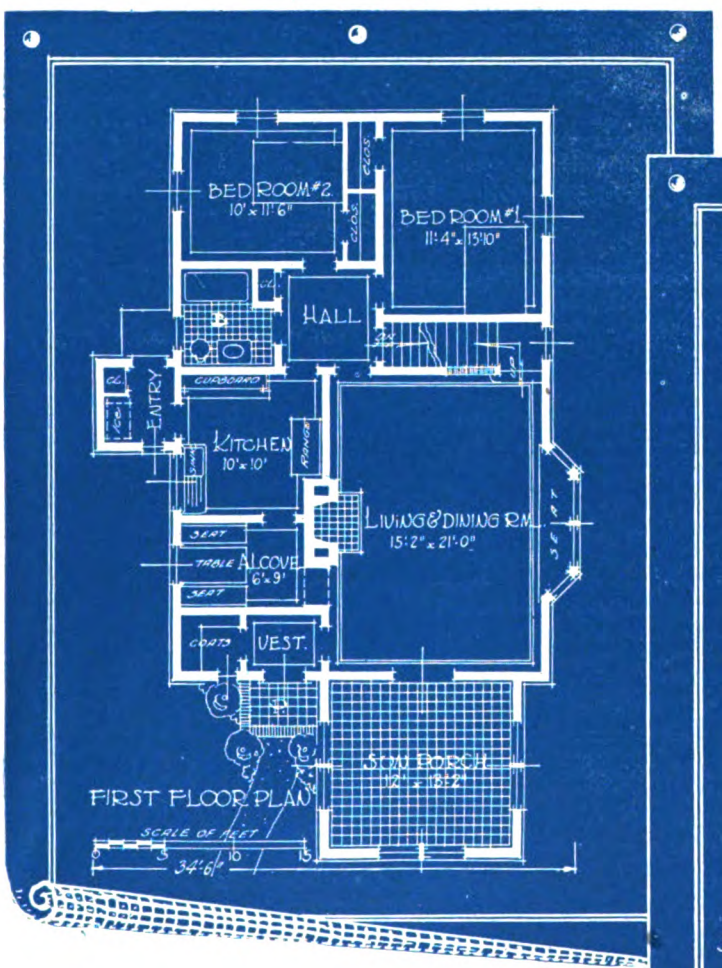
natural which will match with the orange or painted blue.

This house can be built with a wood frame, covered either with wire lath or some of the well known combined sheathing and stucco base materials, or if preferred, it could be built of hollow tile, concrete block or common brick. When the masonry construction is used an added bit of color can be attractively put on by having the window sills of brick projecting about two inches from the stucco surface, giving a touch of red with a heavy shadow.

A vestibule with coat closet provides entrance to the house. There is a large living room with fireplace on one side and a very pretty bay window on the opposite side. Both these features add much to the charm of the most occupied room in the house. There is a compact little dining alcove and a well equipped kitchen, together with two bed rooms and a tiled bath on the first floor.

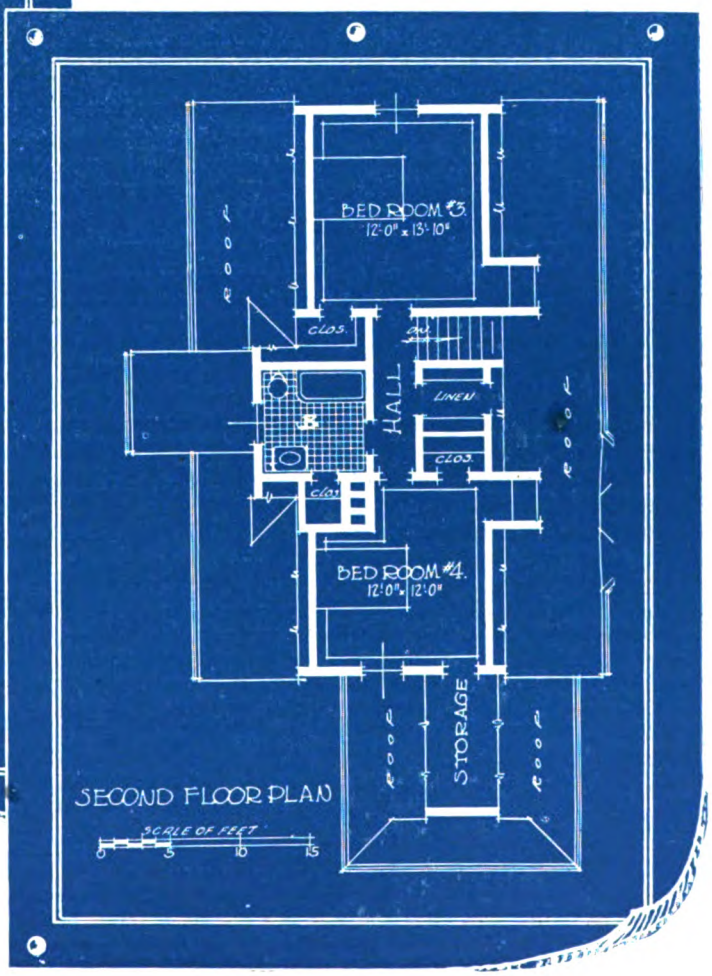
The stairs lead up to a center hall on the second floor and here one finds two additional bed rooms and a larger bath. A well planned linen closet is provided near the bath room which boasts a large window. There is a large space provided for storage, over the sun porch and in connection with Bed Room No. 4.

Steam heating plant, coal bin, cold room, etc., will all be found in the cellar and the estimated cost is about $11,600.

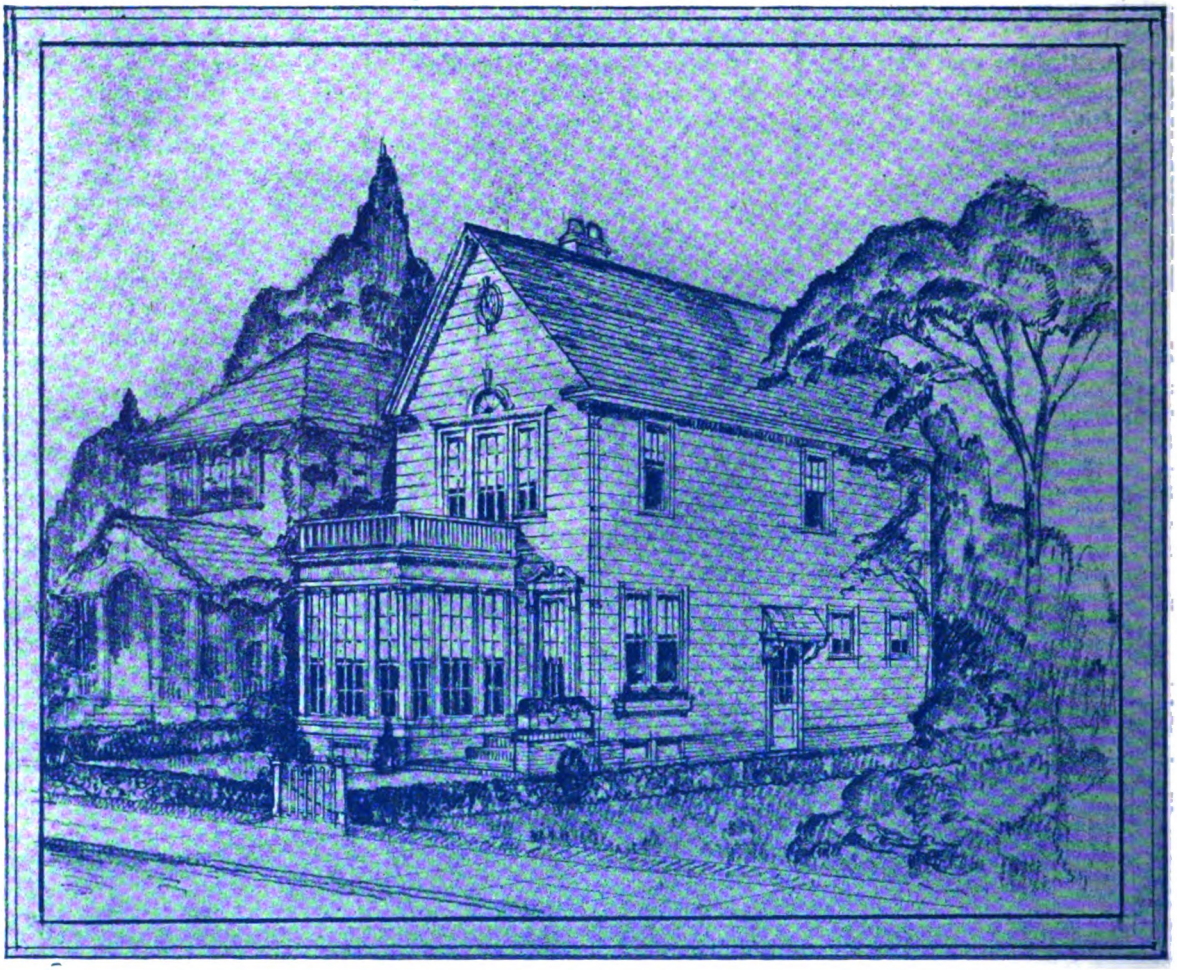


THE first floor plan is that of a complete and comfortably arranged bungalow home. Note the square hall which connects all the rooms—it is a model for convenience that is worthy of following.

THE second floor arrangement can be omitted by those whose present needs are now served by the first floor arrangement. When necessary these extra rooms can be finished off, thus completing the design as indicated on this second floor plan.



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New England Home for Narrow Lot

The Plans in Blue Print Drawn Specially for Building Age and National Builder

HERE is a little gem of a house designed to be placed on a 20 ft. lot. The lines follow those of the old-style New England home, the kind that graced a hill side street. The exterior finish is reminiscent of Georgian Colonial. The room arrangement leaves nothing to be desired by the family of moderate means. Every comfort has been provided for. It is the sort of house that will furnish up well at small expense. For newlyweds it is hard to imagine anything more desirable.

Outline of Specifications

EXTERIOR:
Walls to be of clapboards over frame construction. Entrance steps and terrace to be of common brick. Exposed portions of chimney to be of face brick. Chimney pots of terra cotta.

INTERIOR FINISH:
Of living room and dining room in smooth plaster with ornamental molding. Walls to be painted or papered. Bedrooms to be painted. Sun parlor to have rough plastic finish on ceiling and walls above trim. Kitchen walls hung with washable wall covering. Bath room walls above wainscot and ceiling to be enamelled. Rear entry, laundry and cold closet to be painted with cold water paint.

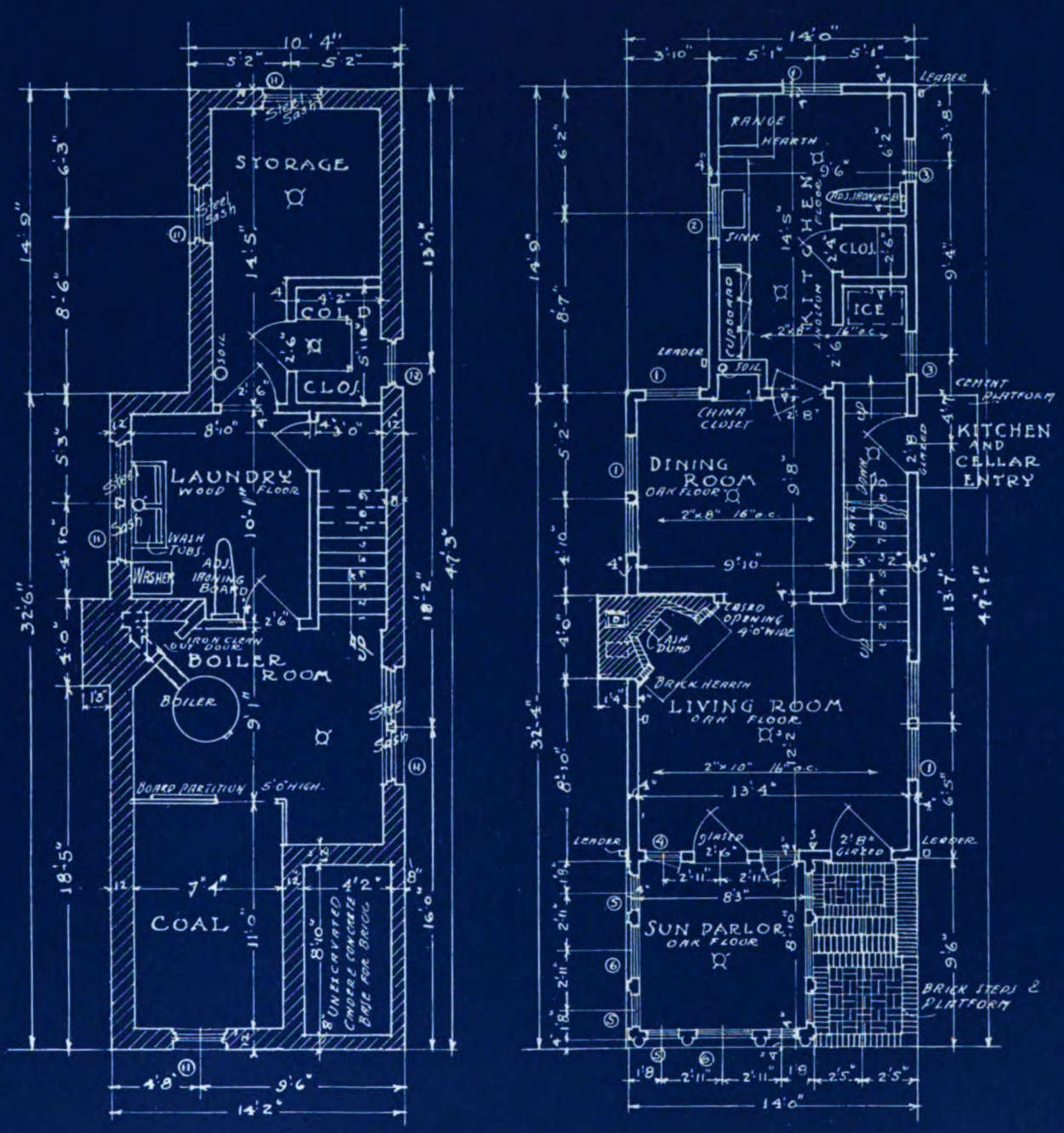
WINDOWS:
To be of wood, double hung, with upper sash divided. Cellar sash of steel. Sun parlor sash to be in removable sections interchangeable with screens.

HEATING:
To be by hot air, hot water or steam as desired.

ROOF:
To be covered with shingles, either of wood or composition. Leaders: rectangular in section of either zinc, copper or galvanized iron.

PLUMBING:
To include enamelled iron sink, lavatory and bath tub; porcelain closet and soapstone wash tubs. Vent and drain pipes, cast iron. Water pipes; brass.

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BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS

Drawn by William Sanger

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SCHEDULE OF WINDOWS.

FIRST FLOOR

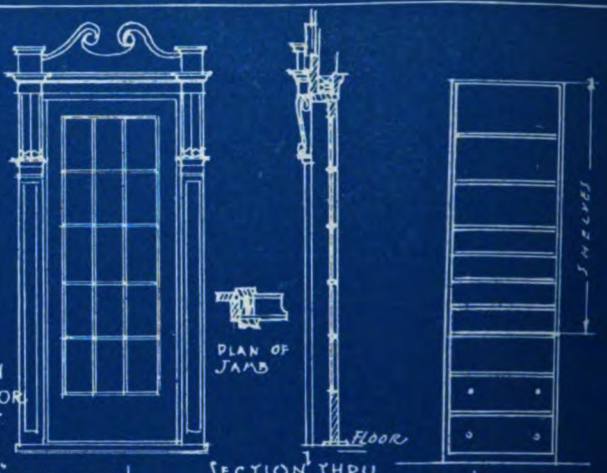
No 1 2'-8" x 5'-2" D.H
2 2'-8" x 4'-0" "
3 2'-8" x 4'-6" "
4 1'-8" x 5'-2" CASEMENT SASH
5 1'-8" x 7'-0" FRENCH CASEMENT SIDE LIGHT } REMOVABLE GLASS FRAMES & SCREENS.
6 2'-6" x 7'-0" " " DOOR }

SECOND FLOOR

7 2'-8" x 4'-10" D.H
8 2'-8" x 3'-6" "
9 2'-6" x 7'-0" SIMILAR IN DESIGN TO No 6
10 1'-8" x 7'-0" CASEMENTS

BASEMENT

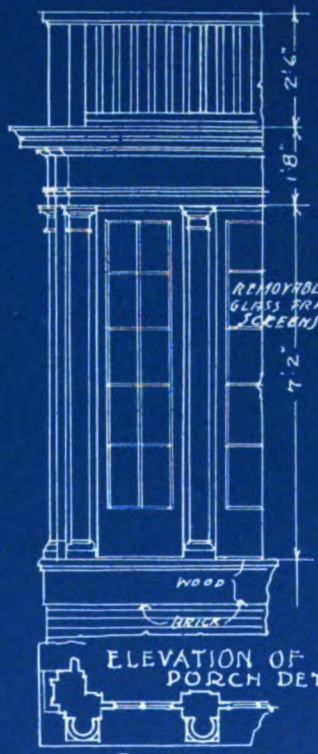
11 2'-6" x 1'-4" SASH TO SWING IN
12 2'-0 x 1'-4"



ELEVATION OF FRONT DOOR
SCALE 1/2" = 1'-0"

SECTION THRU DOOR

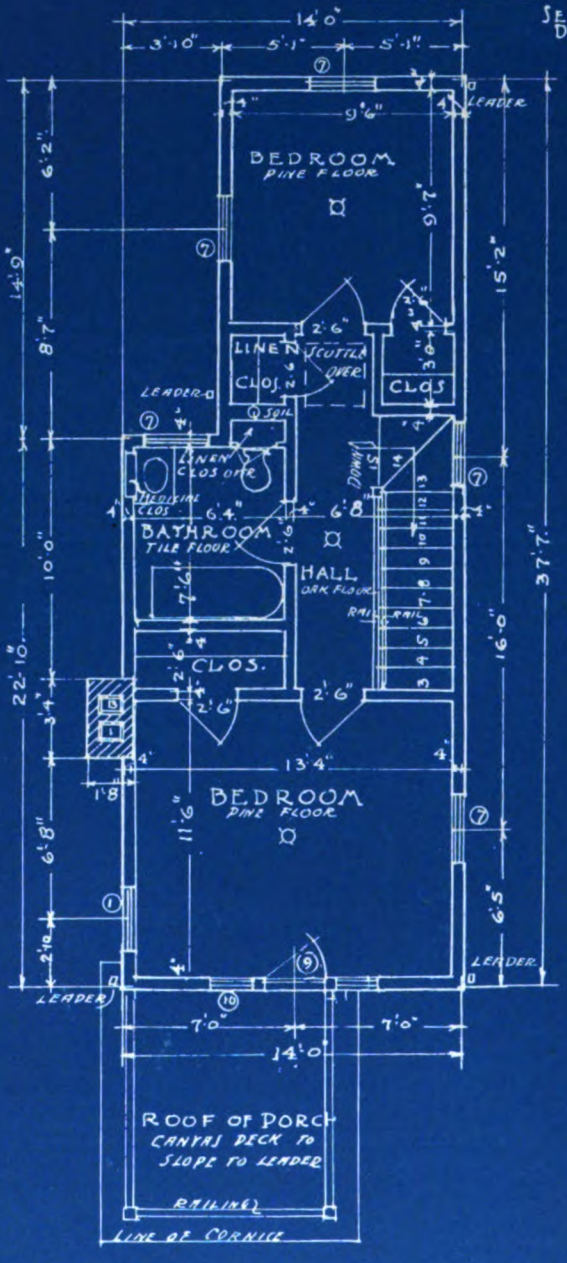
ELEVATION OF LINEN CLOSET
SCALE 1/2" = 1'-0"



ELEVATION OF PORCH DETAIL

PLAN.

SUNK PANEL FOR SIDE PILASTER



SECOND FLOOR
SCALE 1/4" = 1'-0"

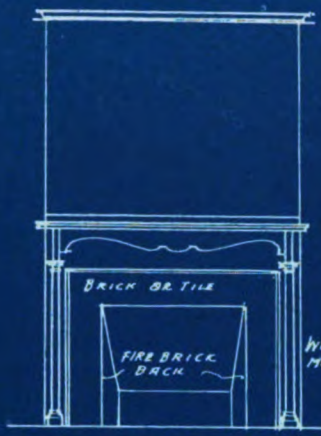


ELEVATION OF HOOD OVER KITCHEN & CELLAR ENTRY
SIDE VIEW
SCALE 1/2" = 1'-0"

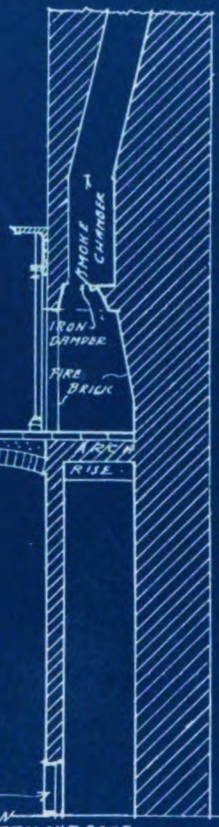
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·ELEVATION OF·
·CHINA CLOSET·

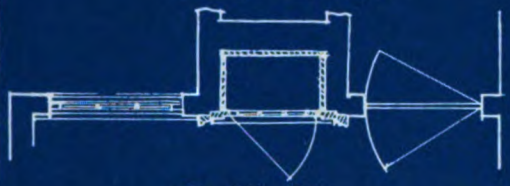


ELEVATION OF
MANTEL·

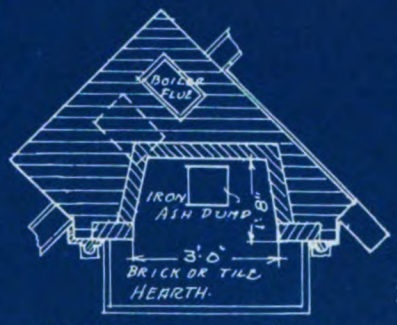




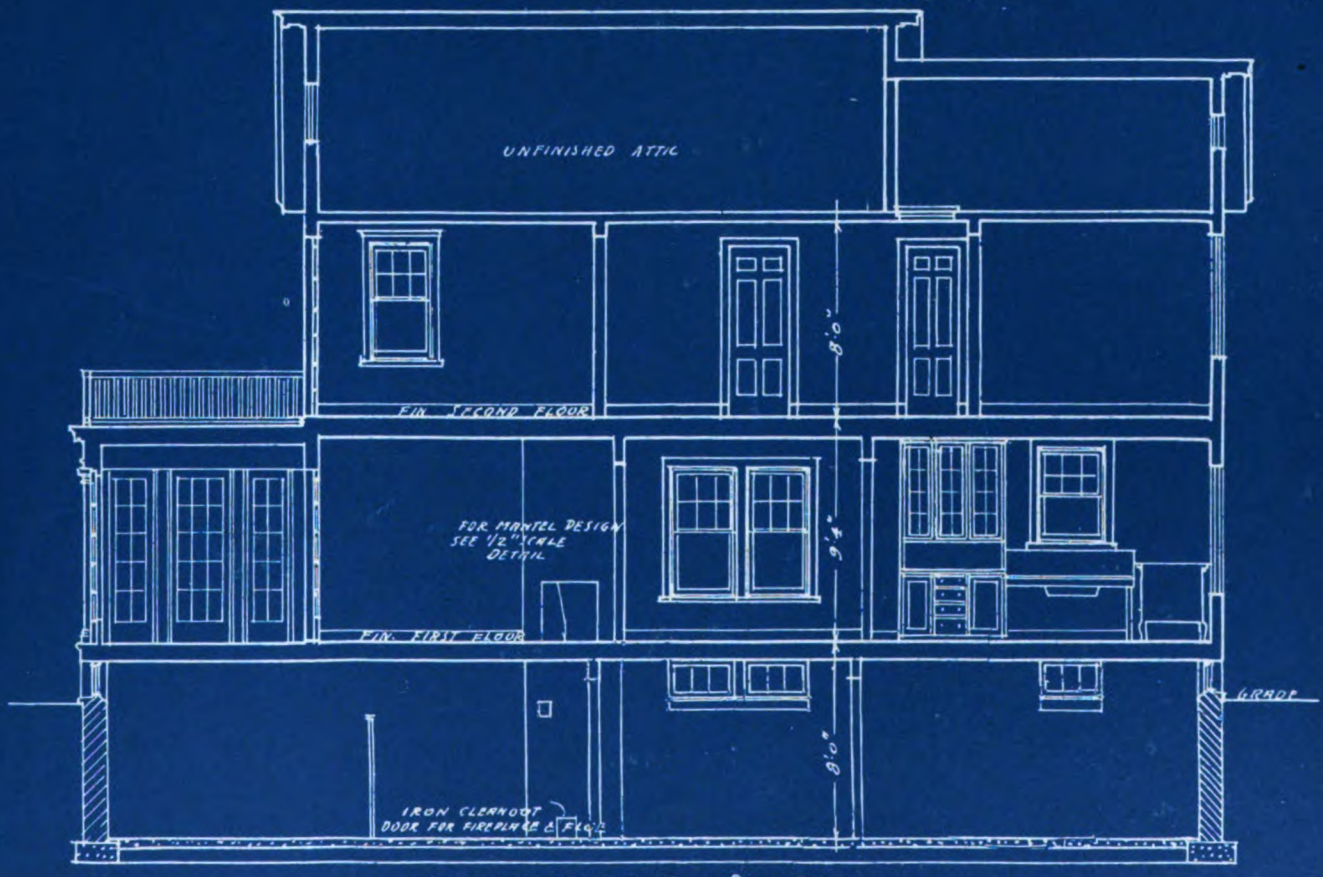
ELEVATION OF
KITCHEN CUPBOARD
SCALE 1/2"=1'0"



·PLAN·OF·
·CHINA CLOSET·
SCALE 1/2"=1'0"



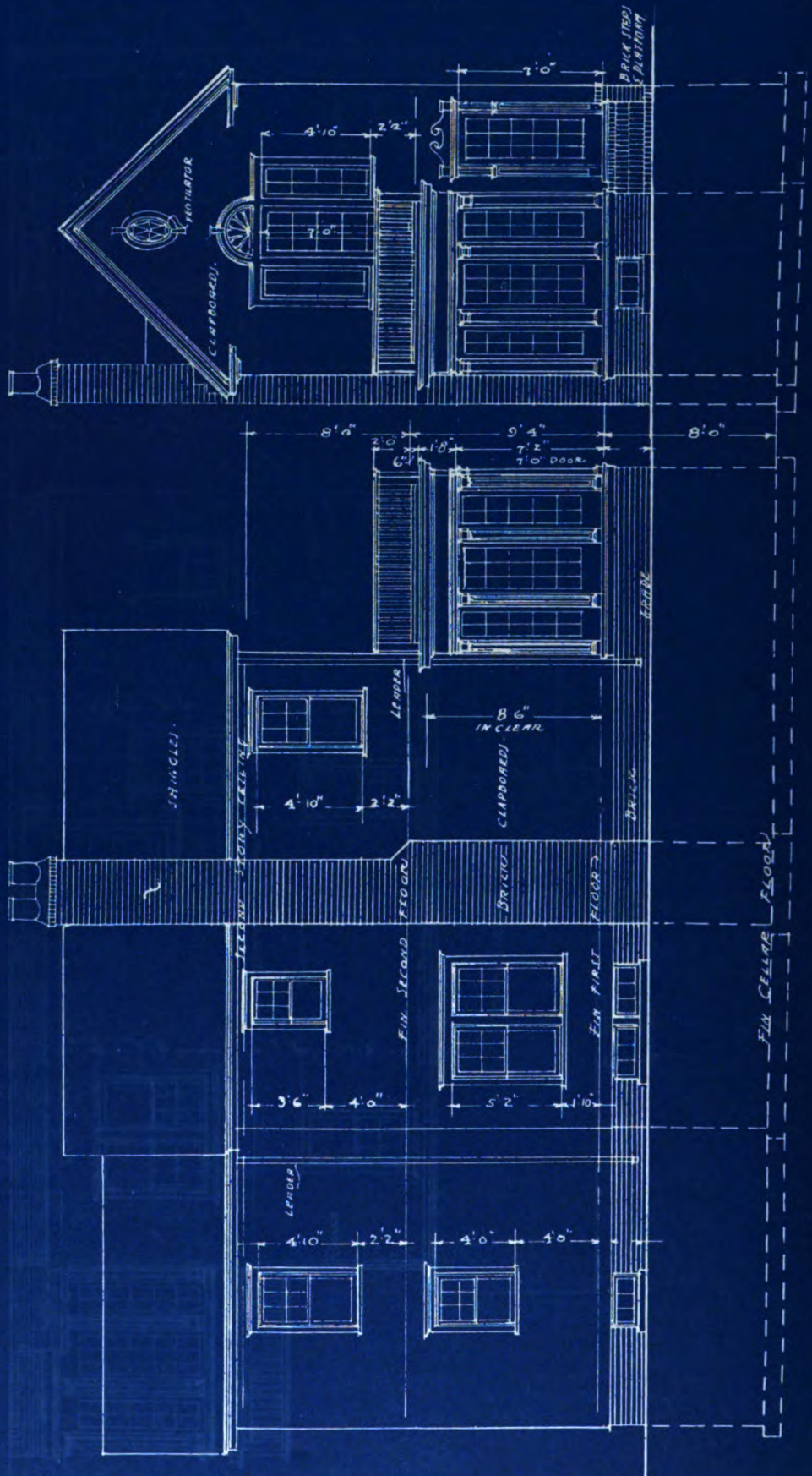
·PLAN·OF·FIREPLACE·



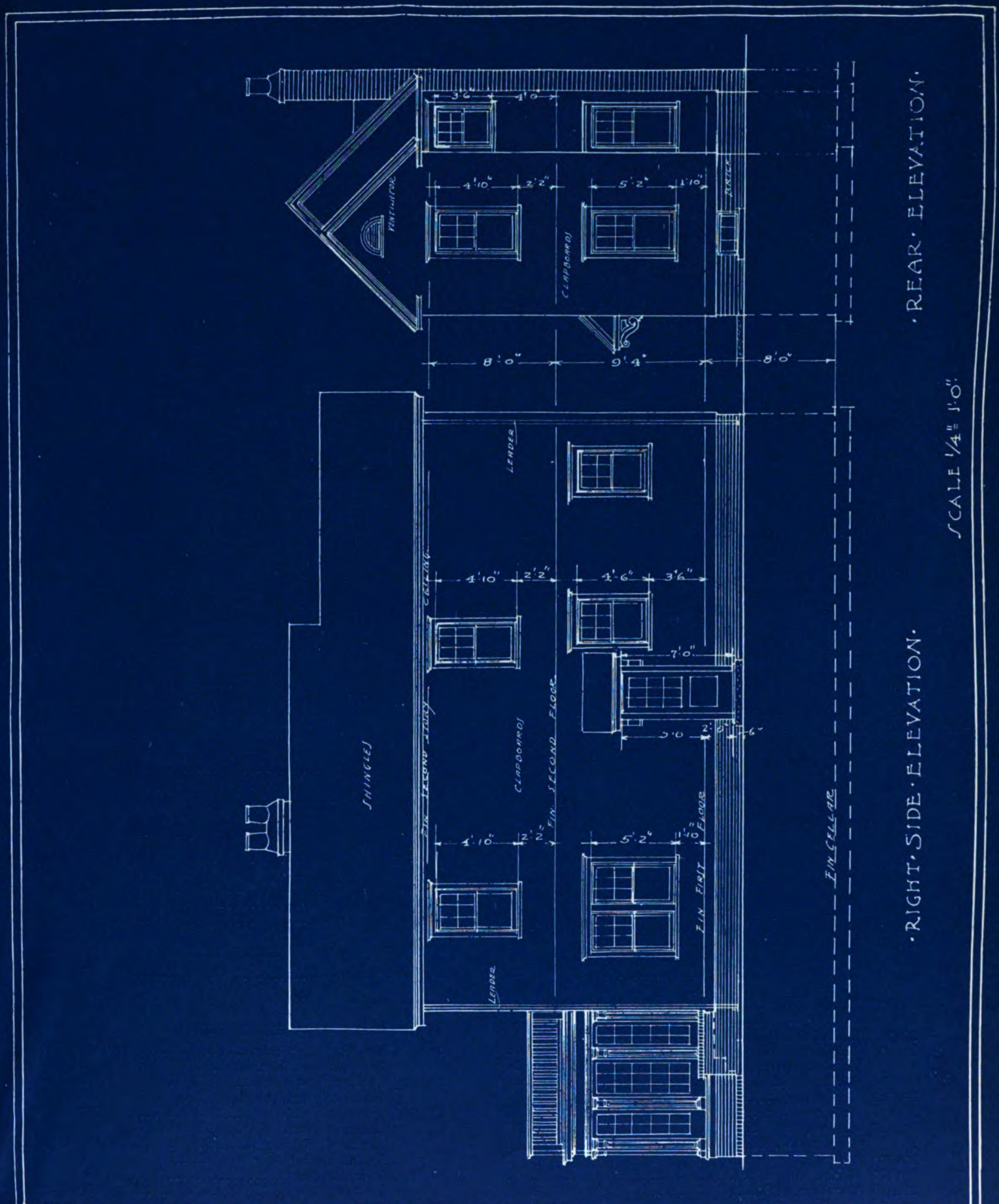
·LONGITUDINAL · SECTION·

BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS

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Quantity Survey of Materials

Prepared by Walter J. Fradgley

for

New England Home for Narrow Lot

EXCAVATION

Basement (two feet larger than wall measurement)	154 cu. yds.
Trenches and pier footings	10 cu. yds.
Back fill around foundations and footings	25 cu. yds.
Fill under front porch floor	3 cu. yds.

MASONRY AND IRON WORK

Concrete foundation walls and footings to grade	938 cu. ft.
Concrete porch floor 4" thick	36 sq. ft.
Concrete basement floor 3" base, ¾" topping	480 sq. ft.
Concrete step foundations	18 cu. ft.
Face brick, foundation walls, chimney, etc	3,934 brick
Common brick, foundation walls, chimney, etc.	5,922 brick
Flue lining 8"x12"	60 lin. ft.
Cast iron cleanout door and frame	1 piece
Thimbles	1 piece
Ash dump for fireplace	1 piece
Fireplace damper	1 piece
Face brick for fireplace	160 brick
Fire brick for fireplace	165 brick
Anchor bolts for wall plates	30 pieces
Terra cotta chimney cap	1 piece

PLASTERING

Plaster on interior walls and ceilings, 1st and 2nd floors	492 sq. yds.
Plaster on basement walls and ceilings	219 sq. yds.

STAIRS

First floor to basement	1 flight
First floor to second floor	1 flight

CARPENTRY

2"x8"	Wall plates	160 bd. ft.
2"x10"	Floor joists (1st and 2nd floors)	1,520 bd. ft.
2"x4"	Ceiling joist (2nd floor and porches)	320 bd. ft.
2"x4"	Roof rafters	480 bd. ft.
2"x4"	Exterior studs and plates	1,724 bd. ft.
2"x4"	Interior studs and plates	1,132 bd. ft.
1"x6"	D & M rough flooring	1,402 bd. ft.
	Floor paper under finished floors	10 squares
1"x6"	Roof boards	1,069 bd. ft.
	Roofing	10 squares
2¼"	Face finished floors	1,051 bd. ft.
1"x8"	Shiplap sheathing	2,939 bd. ft.
	Furring and grounds	250 bd. ft.
	Water proof paper over sheathing	25 squares
1½"x4"	Lap siding	3,674 bd. ft.
1"x6"	Under gutter	80 bd. ft.
1"x12"	Eave soffit	160 bd. ft.
2"	Cove mold	180 lin. ft.
1"x8"	Skirting, sun parlor	19 bd. ft.
1"x12"	Facia, sun parlor	28 bd. ft.
1"x12"	Cornice soffit	28 bd. ft.
1"x6"	Cornice facia	14 bd. ft.
2"	Cove	30 lin. ft.
3"	Bed mould	30 lin. ft.
	Coal bin partitions	110 bd. ft.

MILL WORK

Closet shelving	104 lin. ft.
Chair rail, kitchen and bath	72 lin. ft.
Hook strip	36 lin. ft.
Base and quarter round	384 lin. ft.
Picture mould	208 lin. ft.
Mantel—fireplace	1 piece
Double drain board sink top	1 piece
China closet	1 piece
Linen closet	1 piece
Medicine closet	1 piece
Exterior doors (frames and trim complete)	2 open'gs
Exterior door, frame and sidelights—complete —to porch roof	1 opening
Interior doors (frames and trim complete)	13 open'gs
Cased opening (frames and trim complete)	1 opening
Windows (frames and trim complete)	10 open'gs
Mullion windows (frames and trim complete)	2 open'gs
Triple casement windows (frames and trim complete) sun parlor	3 open'gs 2 open'gs
Attic louver ventilators	4 open'gs
Basement doors (frames and trim complete)	2 open'gs
Mullion basement sash and frames complete	4 open'gs
Basement sash and frames complete	4 open'gs
Front porch top and bottom rail	30 lin. ft.
Front porch balusters	140 lin. ft.
4"x4" posts 2'6"	4 pieces
Sun parlor pilasters 7'2"x8"	12 pieces
Side entrance canopy and brackets complete	1 piece

PAINTING

Exterior woodwork	39 squares
Interior woodwork	25 squares
Finished floors	11 squares

SHEET METAL

Gutters	95 lin. ft.
Downspouts	80 lin. ft.
Elbows	12 pieces
Chimney flashing	10 lin ft.
Canvas porch deck	132 sq. ft.

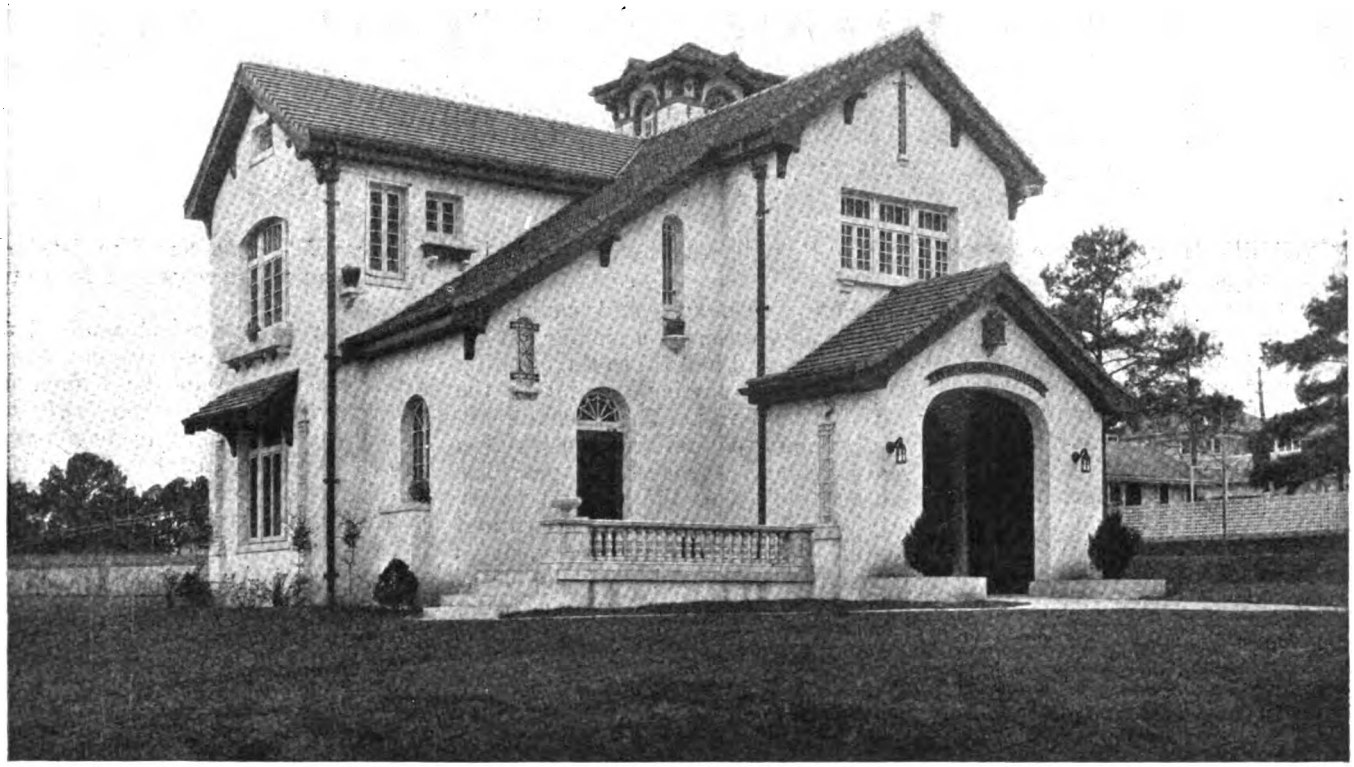
TILE WORK

Floor of bathroom	45 sq. ft.

HARDWARE

4 x4	Exterior door butts	3 pairs
	Exterior door lock sets	2 sets
3½x3½	Interior door butts	13 pairs
	Interior door lock sets	13 sets
3½x3½	Casement sash butts	12 pairs
	Casement fasteners	16 pieces
	Casement adjusters	8 pieces
	Double acting door hinges	1 set
	Door bumpers	17 pieces
	Coat hooks	3 dozen
2½x2	Butts	9 pairs
	Cupboard catches	9 pairs
	Drawer pulls	4 pieces
	Basement door hardware	4 sets

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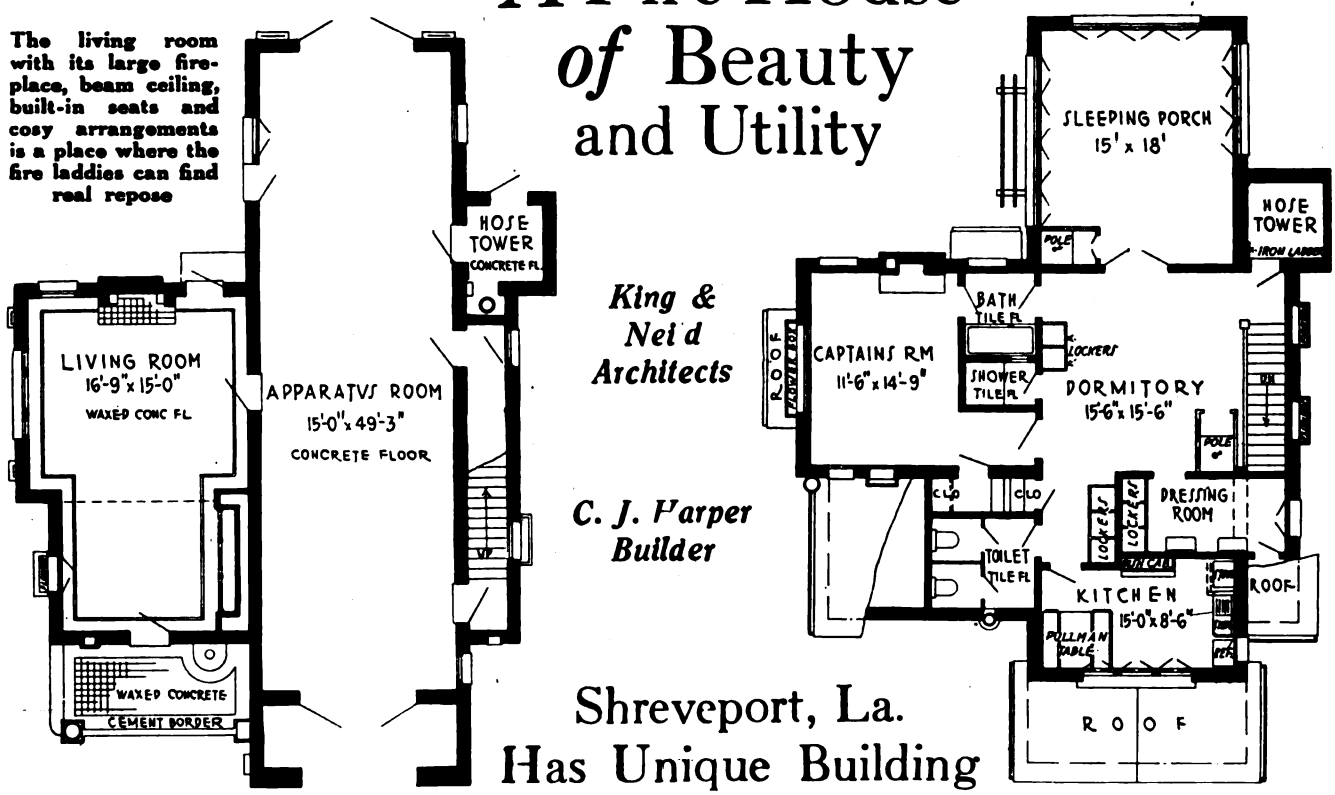
A Fire House of Beauty and Utility

A DEPARTURE from the ordinary in the style of construction of engine houses is seen in the new building of the North Highland Fire Department of Shreveport, La., shows an unusual adaptation of beauty and utility.

The building is well designed, with stucco exterior and green tile roof. Wrought iron grilles and ornamentation, and concrete flower boxes and vases keep the eye continually engaged and always charmed in the contemplation of the exterior.

The structure is two stories high, with the apparatus room and a large living room on the first floor, and the dormitories, kitchen and captain's office on second story.

The living room with its large fireplace, beam ceiling, built-in seats and cosy arrangements is a place where the fire laddies can find real repose



King & Neild Architects

C. J. Harper Builder

Shreveport, La. Has Unique Building

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There Is Still
A BUILDING SHORTAGE

Here Are the Results of a Country Wide Survey Made by Building Age and National Builder

SEVERAL items have recently appeared in our newspapers and general magazines stating that: owing to the large volume of construction already accomplished, the building shortage was overcome, and that, after 1925, building activity would be limited only to our normal building needs.

Is there any foundation for these rumors?

The great question is:

What is the building situation today?

Has the phenomenal amount of building activity in the last few years overcome the great shortage resulting from the cessation of practically all building construction during the world war period?

The answer to this question is presented herewith—the result of a survey made by BUILDING AGE AND NATIONAL BUILDER through the various Chambers of Commerce in the United States.

Four years ago, and again two years ago, we made a similar survey which proved helpful to the building industry in particular, and to the nation generally. The record-breaking amount of building construction during last year and this year has been credited as the greatest factor in the prosperity of the United States. The present survey, it is hoped, will be found as valuable as our previous surveys, covering similar building needs.

The figures here presented are based on facts. In the present instance, a questionnaire was addressed to the Chambers of Commerce, Boards of Trade, or other commercial organizations in various cities and towns throughout the United States. We received reports from over 700 cities and towns and, of these, 590 gave complete detailed reports on which we could base our figures.

These reports are not confined to any one state or section but come from every state in the Union, so that the figures given can fairly be relied upon, according to the general law of averages, as representing the building needs of the United States at the present time.

One of the most interesting facts revealed by our investigation is that, despite the large amount of buildings constructed in our cities, there is still today a very considerable shortage of homes and other buildings in our cities of over 25,000 population.

The biggest needs for such buildings seem to be in cities of between 25,000 and 75,000 population, which indicates that small cities are growing rapidly in population. This is

Building Construction Required in the United States*

Based on Information from The Chambers of Commerce in 590 Cities and Towns

TYPE OF BUILDING	287 Cities Over 25,000 Population		2,501 Towns and Cities 2,500-25,000 Population		Rural Below 2,500 Population	
	Number	Value	Number	Value	Number	Value
Residences:						
1-family, under $5,000	73,512	$294,048,000	80,893	$403,572,000	60,000	$240,000,000
1-family, $5,000-$10,000	44,918	359,344,000	24,844	198,752,000	32,000	256,000,000
1-family, over $10,000	14,251	356,245,000	4,683	117,075,000	1,500	18,750,000
2-family	27,910	279,100,000	6,094	60,940,000	144	1,152,000
Apartments	7,053	528,975,000	2,776	107,708,800	....	.....
Total Residential	167,644	$1,817,712,000	119,290	$888,047,800	93,644	$515,902,000
Churches	272	27,472,000	358	17,736,394	300	3,000,000
Schools	394	65,732,000	1,019	70,535,180	936	23,400,000
Hospitals	128	28,381,000	468	25,974,936	20	500,000
Theatres	283	30,903,000	502	29,923,216	10	100,000
Garages—Public	599	12,541,000	476	9,119,684	....	.....
Garages—Private	53,059	20,640,000	17,453	8,325,081	46,000	9,200,000
Banks	144	52,036,000	182	13,950,482	93	930,000
Hotels	234	84,956,000	958	135,459,494	40	2,000,000
Stores	2,415	27,159,000	2,449	28,751,260	200	1,000,000
Factories	800	79,893,000	639	29,473,875	60	1,200,000
Office Buildings	445	90,693,000	173	15,195,455	10	200,000
Public Buildings	227	60,434,000	686	41,496,140	20	500,000
Miscellaneous	31	9,104,000	547	12,254,988	15	300,000
Total	226,675	$2,407,656,000	145,200	$1,326,243,985	141,348	$558,232,000

*For classes of construction not included in this Survey see next page.

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Building Requirements of 590 Cities and Towns

Based on Figures Furnished "Building Age and National Builder" September, 1925, by Chambers of Commerce

TYPE OF BUILDING	84 Cities. Over 25,000 Population		506 Towns and Cities 2,500-25,000 Population	
	Number	Value	Number	Value
Residences:				
1-family—under $5,000	17,682	$70,728,000	25,290	$101,160,000
1-family—$5,000-$10,000	7,332	58,656,000	7,734	61,872,000
1-family—over $10,000	1,552	38,800,000	1,946	48,650,000
2-family	1,785	17,850,000	2,100	21,000,000
Apartments	482	36,150,000	927	35,967,600
Total Residential	28,833	$222,184,000	37,997	$268,649,600
Churches	33	3,355,000	126	6,242,500
Schools	71	11,845,250	209	12,477,000
Hospitals	29	6,430,000	123	6,836,800
Theatres	67	7,340,000	128	7,630,000
Garages—Public	74	1,550,000	107	2,050,000
Garages—Private	5,032	1,958,000	9,247	4,442,600
Banks	11	3,975,000	43	3,296,000
Hotels	44	15,975,000	244	35,380,000
Stores	386	4,441,000	571	6,704,000
Factories	71	7,090,500	144	6,642,080
Office Buildings	95	19,361,500	73	6,412,000
Public Buildings	65	17,305,000	181	10,950,000
Miscellaneous	6	1,762,000	168	3,741,000
Total	34,817	$324,572,250	49,361	$381,453,580

borne out by reports from different government departments, financial institutions, and real estate associations.

There has been a decided movement of our population to the suburbs from the larger cities, but the larger cities themselves still continue to increase. The reports of real estate transactions show remarkable activity in the sale of lots for homes, etc., in our smaller cities that are suburbs of our larger cities.

Our figures disclose that, though apartment houses still find favor in our smaller cities, the demand for them in the smaller cities is not so very heavy, and that the greatest apartment house demand is still in the large cities.

There is very great demand throughout the United States for small one family houses, especially those costing less than $5,000. This demand has not been met to any great extent despite the past three years of abnormal building.

Our report shows that nearly 220,000 of such buildings are still needed today in the United States to bring the demand back to a normal basis.

Our report further discloses that over 100,000 single family houses costing from $5,000 to $10,000 are needed.

The greatest single need then, that the building industry must do its best to fill if we are to overcome the housing shortage, is for moderate cost single family dwellings.

We have been spending money for higher grade buildings but have been ignoring the small home structure.

There has been a decided tendency in the last few years for people to own a home of their own rather than to rent either a house or an apartment.

What Our Figures Do Not Show

Our figures do not include farm buildings other than dwellings. The present number of farms in the United States, making allowance for a reasonable increase since 1920 when the number of farms reported was 6,448,000, must at present be fully 6,500,000. The total number of buildings on these farms, other than dwellings, is, according to the best available information, about 42,250,000. These, estimated at a conservative figure, have an average money value of $300 each.

There is an average of seven and one-half buildings for each farm, divided as follows for each 100 farms: houses, 100; graneries, 67.4; hog houses, 67.7; chicken houses, 90; cattle sheds, 45; corn cribs, 66.8; silos, 23.3; barns, 134; woodsheds, 54.7; garages, 48.7.

It is very conservative to consider 50 years to be the average life of the average farm building. This would mean, then, a replacement of practically 907,500 farm structures each year.

It is only within the past year that the farmer has been in a position to do much new building. It is reasonable to assume that it will take two years to catch up with normal requirements, both for new buildings and for the replacement of old ones. There is then a shortage of approximately 1,819,800 structures. At an average value of $300 each, these amount to a total of $545,940,000.

Lest these figures seem high, consider that there are not less than 6,500,000 farms in the United States. This means that this new construction needed would amount only to $84 for each farm—a very moderate estimate indeed.

Another class of structures must be considered in connection with a survey of farming community needs. The farmer is now equalizing prices of his products by building storage houses so that he is no longer under the necessity of selling immediately following harvests.

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IT is also not unreasonable to assume that, in addition to the public warehouses, small subsidiary warehouses will be built by the farmers themselves and the value of these is estimated to be $1,250,000. These items, added to that for other new buildings, make a grand total of $549,690,000 for rural needs, exclusive of the $558,232,000 needed for residences and other structures as given in our first table. These total to $1,107,922,000.

The money value of the present building shortage therefore totals as follows:

Total Building Shortage

Cities of over 25,000 population	$2,407,656,000
Cities and Towns of 2,500 to 25,000	1,326,243,985
Rural	1,107,922,000
Military and Naval Building	2,000,000
Public Works	400,000,000
	$5,243,821,985

IN making estimates of the cost of the various buildings given in this survey, the price is based on averages from all reporting. These are given in the following table:

Third, the average prices in the rural districts (comprising towns under 2,500 population and farming communities.)

By way of comparison, we give similar estimates for the same type of structure found in reports of estimated costs taken from the building permits of 277 cities having building departments.

IN the majority of these cases it will be noted that the estimate of the costs in the building permits are under our figures but we must remember that the actual cost in most cases will be found to average more than the first estimate given in the building department application. We consider, therefore, that our figures are more reliable as showing actual average costs at the present time.

Well worth noting is the average cost computed for private garages in towns of over 25,000 population and in towns of 2,500 to 25,000. In the first case unit cost is given at $389, while the small town reports an average cost of $477. Interpreting this difference in unit value, it is inferred that while the construction of the small city private garage is less expensive, provisions are made in many cases for two or more cars, while in larger cities this type of structure is not so common.

Again, the average costs of schools in both rural districts and in towns below 25,000 is given to be higher than that computed a few years ago. This increase is due to the present educational policy of erecting better school buildings, each one to serve a larger territory than formerly. In short, the little schoolhouse, so much in vogue a decade ago, is rapidly giving way to more elaborate buildings similar to those found in densely settled communities.

Average Costs of Buildings

Based on Reports from 590 Cities and Towns

Type of Building	Average Costs: Cities Over 25,000	Towns and Cities 2,500-25,000	Rural Under 2,500	Estimated Costs Building Dept. *Figures
Residences:				
1-family, under $5,000	$4,000	$4,000	$4,000	$4,208
1-family, $5,000-$10,000	8,000	8,000	8,000	....
1-family, over $10,000	25,000	25,000	12,500	....
2-family	10,000	10,000	8,000	6,632
Apartments	75,000	38,800	....	45,074
Churches	101,000	49,543	10,000	39,994
Schools	166,834	69,220	25,000	155,035
Hospitals	221,724	55,502	25,000	127,284
Theatres	109,552	59,608	10,000	65,376
Garages (public)	20,937	19,159	....	8,993
Garages (private)	389	477	200	464
Banks	361,363	76,651	10,000	....
Hotels	363,060	141,393	25,000	473,668
Stores	11,246	11,740	5,000	11,070
Factories	99,866	46,125	10,000	23,202
Office Buildings	203,805	87,835	20,000	99,758
Public Buildings	266,230	60,490	25,000	94,688
Miscellaneous	293,666	22,404	20,000	4,276

*From Building Department Reports for 277 Cities.

This table presents:

First, the average price of the different structures in large cities.

Second, the average price of the same structures in towns and small cities.

Homes Needed Annually Due to Increasing Population

That some idea may be given of the normal requirements for housing, we must consider that the increase in population, 1,873,076 annually, amounts to 5,132 persons per day. The average number of persons in a family is five, so it is absolutely necessary for the United States to provide 1,026 new homes every day in the year! As there are 365 days in a year, this means that annually there are 374,615 homes needed in this country. To this, should be added replacements of existing structures made necessary by decay, fire loss, etc.

OUR figures disclose that as we enter 1926 the actual building situation is still over a year behind, and this shortage, plus normal annual requirements, has to be made up before normal conditions again prevail. Each year, of course, brings its own amount of normal building which increases year by year as population increases.

Figures in another part of this article disclose the amount of homes that are needed every year to meet the annual increase in population, but besides homes we have to erect various other structures to accommodate this annual increase of population. They need places to work in, places in which to buy things, places in which to worship, amusement places, hospitals, educational buildings, etc.

We can better visualize the annual building needs of the United States when we state that it is necessary each year to build in the aggregate a city the size of Philadelphia with all its various kinds of buildings and industries! And this is the third largest city in the United States with a population of 1,873,070 (1920 census figure).

In our November issue we will publish an article on the probable 1926 construction based on additional information.

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Making Apartments Into Stores

IT is no unusual thing in a big city to find neighborhoods undergoing a complete change. Several things influence the change, but where the transformation is for the better, the chief cause is generally an increase in value of real estate, or the influx of a large number of people in a given thinly populated district which makes necessary a shopping center to take care of the increased demand. It then

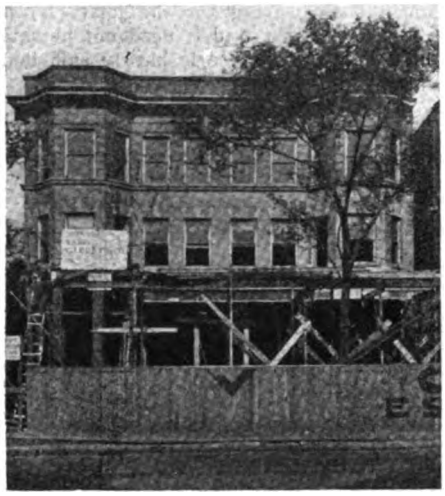


Fig. 1. General view of job, showing scaffolding and steel work in place

becomes profitable for owners of property in the affected district to think of changing over from apartments to stores, and here is another

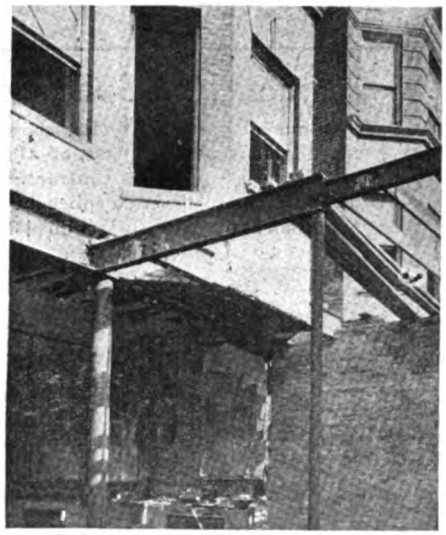


Fig. 2. The brick bay of the old building was carried on the steel beams by building up brick work from beam flanges

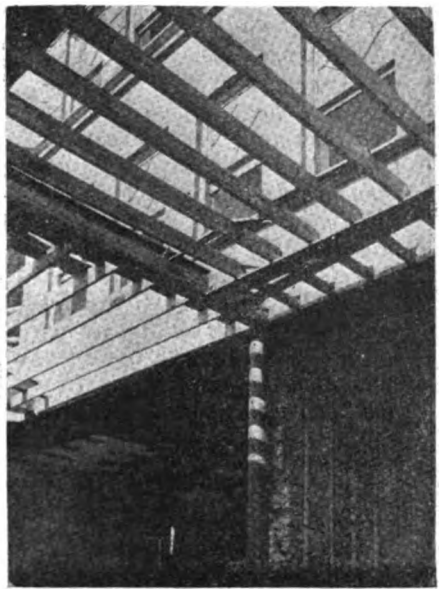


Fig. 5. Roof joists for new section were carried on flanges of I-beams

opportunity for a remodeling job.

The job illustrated here was carried out in Chicago, Ill., by the Olsen-Carson Co., general contractors of that city. It consisted in raising an old apartment building to provide for setting stores on the ground floor instead of apartments as originally built. The shoring up of the job was straight support work and will not be treated here. It may be interesting, however, to see just how some of the framing and steel erection was done, as this forms a good part of all such work.

Fig. 1 shows the building in position just after being raised. The sun-parlors on the original building came right down to the grade, but in the course of remodeling they were supported on the flanges of steel I-beams as shown in Fig. 2.

Inasmuch as most of the steel members were comparatively light, a gin-pole was all the equipment that was required to set them in place. When lifting a beam into position, it was steadied by diagonal brace as shown in Fig. 3. Four men were required to set the beam; one to operate the gin-pole, one to settle the beam into position, and two to steady the beam as it was being lifted into place.

The smaller and lighter members were handled as shown in Fig. 4. They were lifted into place by means of ropes, the men supported by the steel already anchored in place.

Fig. 5 shows a method for framing the roof joists of the store addition to the steel-work. Inasmuch as the steel at this point was quite heavy, the flange of the I-beam shown was wide enough to furnish sufficient bearing for the light joists. They were not allowed to rest directly upon the flange of the I-beam since there was no method possible of

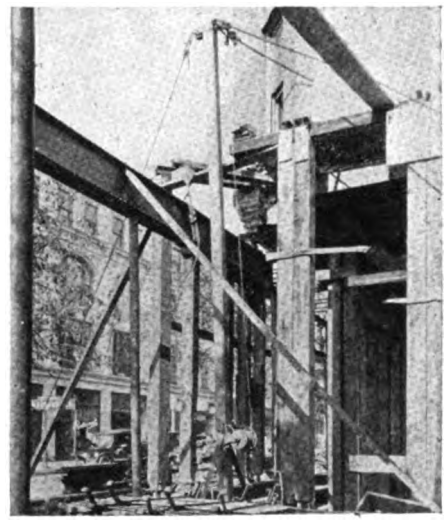


Fig. 3. This gin-pole was used in lifting heavier pieces of steel into place

anchoring them, but they rested on a 2x4" strip which was bolted to the flange at 3 ft. intervals. The joists were nailed to this strip.

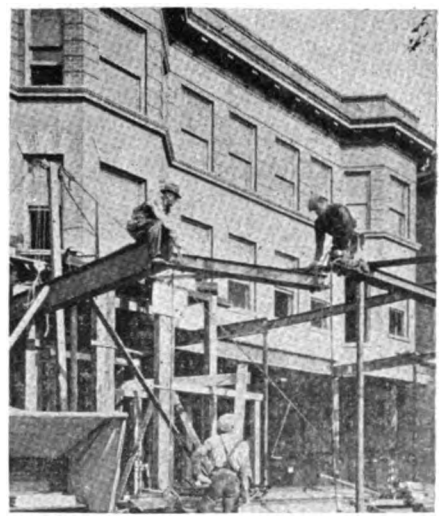


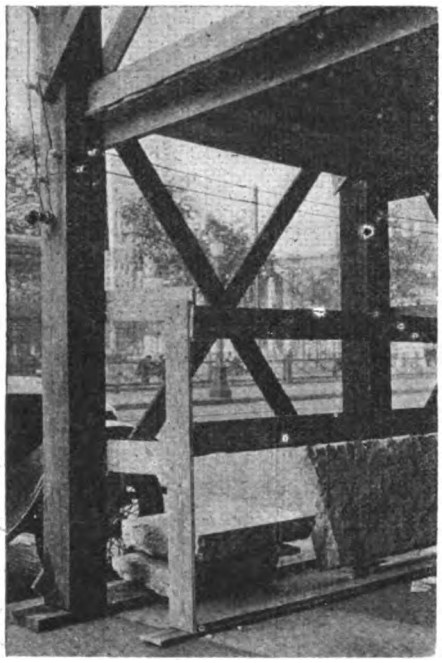
Fig. 4. The smaller steel beams were pulled into place with ropes by workmen on the heavier pieces already in place

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On the Job with the Construction Editor

Extra Storage Space

BEING hard put for storage space, the Larkin-Carey Co., of New Haven, Conn., used a part of their sidewalk to



store materials. The storage space was partitioned off from the rest of the walk by a light rail in order to prevent accidents to pedestrians.

THE trend to-day, as I interpret it, is toward more accurate cost analysis. Builders have always recognized the importance of cost cutting, of course, but in this age they are finding out more definitely just where these economics lie. My part in this work, I feel, has its own important aspect. For if any of my fellow builders are saving money on the job through the ideas presented here, then my time has been well spent.

Sincerely,

Roy A. Singer

Trussed Wall Opening

THE accompanying view shows the method used by a Montgomery, Ala., builder to support the second floor over a large wall opening in a first floor bearing wall. The supports carrying the double plate which hold the second floor joists are 4x4", and a horizontal 4x4" is notched into them at the height of the opening, to form the lower member of a truss.

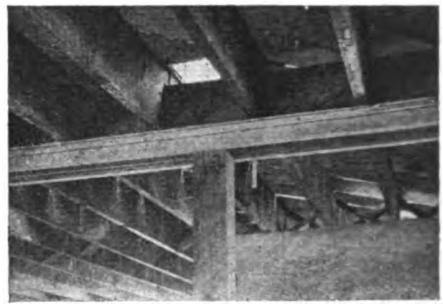
The diagonal members of the truss are 2x4", and are notched into the horizontal 4x4" at the bottom and brought to bear against a short piece of 2x4" nailed to the plate at the top. Two vertical 2x4"'s near the middle of the opening help to carry the load, but the other vertical members in the truss serve to brace the diagonals rather than to carry the load from the sill to the lower member.



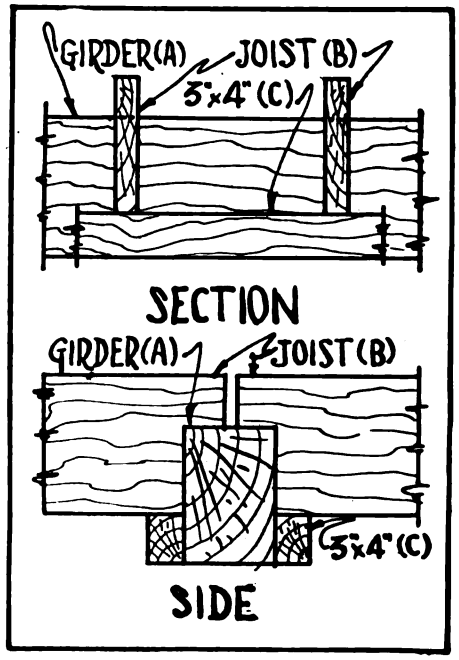
Framing Joists to Wood Girders

THOUGH the use of steel columns and girders of light weight is customary in the planning of floor support for small buildings, nevertheless, wood columns and girders are still quite extensively used. This is especially true in the smaller communities where steel stocks are not extensive. For the builder who uses wood columns and girders the sketch may prove valuable.

This contractor uses a piece of 3"x4" at the lower part of the girder to help furnish a bearing for the joints (B). The joists are cut as shown in the sketch. In this sort of an arrangement there might be a great temptation to use a 2"x4" in place of the 3"x4" (C) but this should not be done. By substituting a 2"x4" for the 3"x4" (C) the

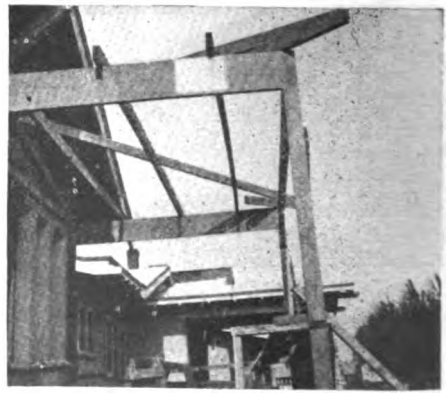


amount of bearing for the joist (B) is reduced an inch, and it need not be said here that two inches is hardly sufficient bearing for a joist.



Poor Practice in Splicing

HERE is one of the things that show poor judgment on the part of the builder. To save a joist, this contractor used a piece of tin to make a splice between two short pieces. Don't do it!



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Here is the New Rex 5-S

LIKE all other Rex Mixers and Pavers the New Rex 5-S is built on the high speed idea. It gets the stuff into and out of the drum faster. It works in the tight corners. It says good-bye to slow old-fashioned mixing and moving.

One foot greater capacity than the Rex 234-S, which it replaces, makes it a full bag machine on a 1-2-4 mix. A disc clutch, a self-locking band brake and an automatic clutch knockout increase operating ease and speed.

Big mixing blades and buckets, big drum openings, a fast skip and a wide discharge chute speed up charging and discharging. Certified malleable says good-bye to the burdensome weight of those cast iron parts that snap easily under service.

In short, the Rex 5-S is built for faster mixing—for quicker moving—for longer life. It has extra power, extra size and extra strength to keep it turning out record-breaking yardages season after season. Further information on request.

CHAIN BELT COMPANY
723 Park Street
Milwaukee, Wisconsin

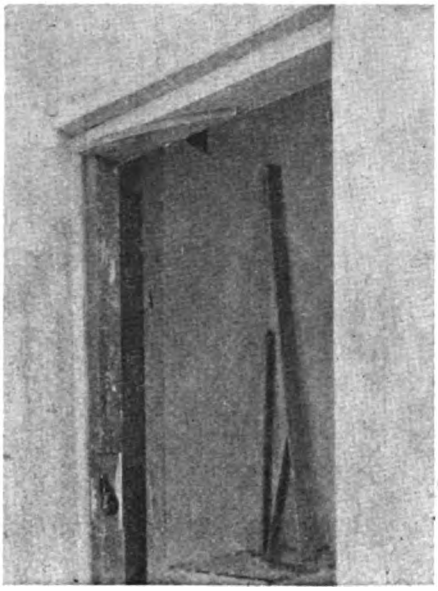
REX MIXERS

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On the Job with the Construction Editor

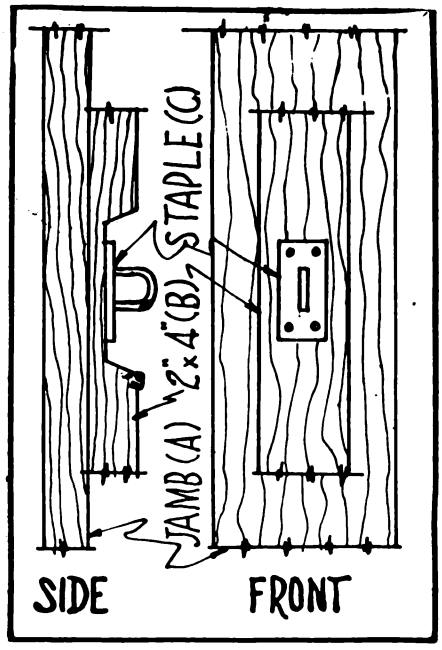
Temporary Jamb

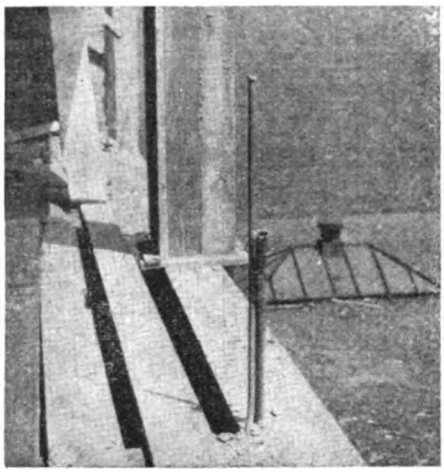
IN order to hang a temporary door without spoiling the jam, this builder hit upon the idea of setting a temporary jamb. This temporary jamb was nothing more than a simple piece of 2"x4" set in place as shown, and cut out to hold a



staple (C). When the finish door came on the job, the temporary door was no longer required, and the temporary jamb (B) was removed.

The value of such a device is evident to the contractor who has been wasting time nailing old doors in place each night before leaving the job. Here, he can swing one, closing it against jamb.



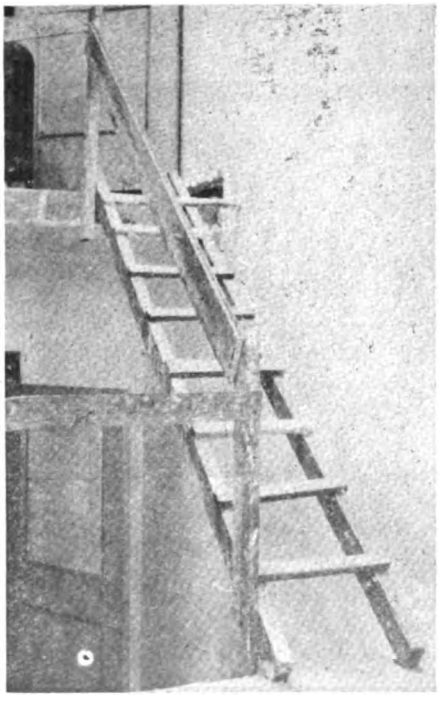


Providing Openings

THE device shown in the photograph is nothing more or less than a pipe made of sheet metal with the edges bent over at one end. When it is desired to provide an opening for wires or pipes which are to pass through a slab, one of these sheet metal pipes of proper width is cut to length and set in the form. The "fins" hold the device in place.

Safety First!

THE accompanying illustration, made in Detroit, Mich., shows a very unsafe condition. In positions like the one shown, a temporary stairway should be erected. The rail helps, but the entire arrangement is fundamentally wrong.



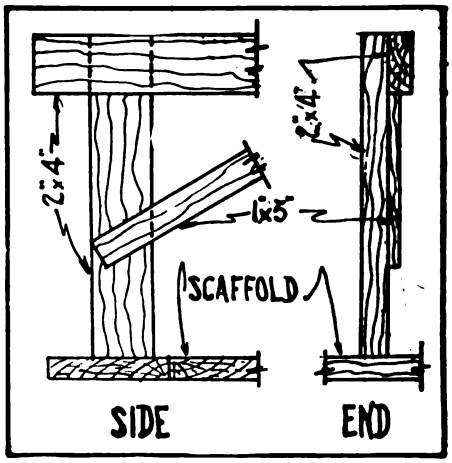
Scaffold Extension

IN some classes of work, such as store buildings and garages, the walls are of such a height that the ordinary horse scaffold does not furnish sufficient height. It then becomes necessary to



add to it in order to provide a place for the masons to work. This is done in many ways but the writer believes that the method shown here is a good one provided it is properly done. The accompanying sketch and photograph are self explanatory.

A word of caution here may not be amiss. It will be seen in the illustration that while the method of providing extra height is all right, the means used are all wrong. In any bit of scaffolding, the work should be done carefully, not haphazardly as shown in the photograph. If these extensions are built as shown



in the sketch, and properly braced when they are set on the scaffold, the builder may feel justly safe from accidents. It is not wise, however, to build these extensions more than three feet high. If a greater height than this is required, another tier of horses should be used.

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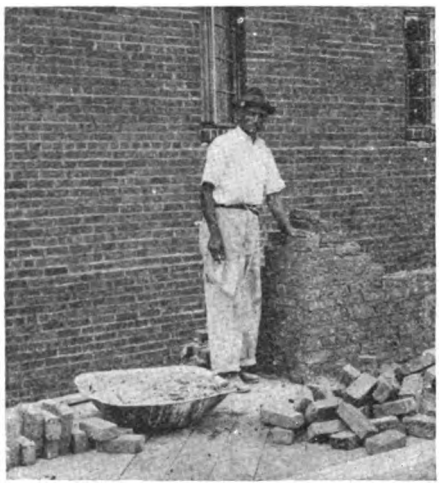
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On the Job with the Construction Editor

A New Use for Old Wheelbarrows

OCCASIONALLY the carriage of a wheelbarrow becomes so damaged that it is not worth while repairing, and

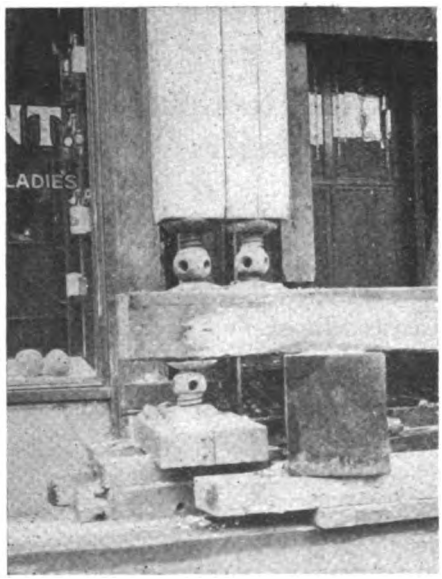


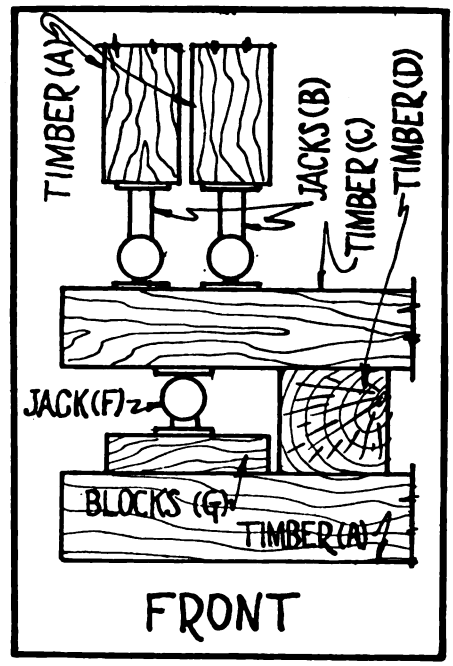
the wheelbarrow is therefore discarded. When the bodies of such wheelbarrows are in good condition they may be put to a useful purpose, as is illustrated in this photograph taken on a job of Anthony Smith, a builder of Pelham, N. Y. He uses them for mortar buckets for the masons and thus saves the cost of a mortar board.

Cantilevered Shoring

THERE are many unusual conditions to be met with in house raising, among which may be numbered cantilevered shoring. In the case described here, it was necessary to set one of the shores on a section of cantilevered timber as shown, in order that clearance could be provided to permit the setting of a steel column close to the wall.

In the sketch it will be seen that the shore timber (E) rests on a horizontal timber (C). This in turn, is carried on another horizontal timber (D) at right angles to the timber (C). The base of the support is the timber (A). The important point to notice is that there is a jack (F) under the part of the timber (C) which overhangs the timber (D).

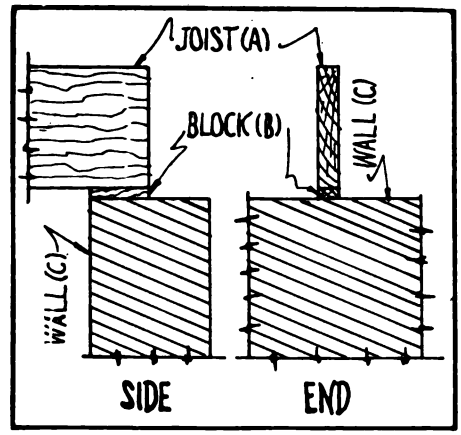




This jack (F) adds greatly to the stability of the shoring system, and without it there would be considerable danger of a collapse. The jack (F) is set in collar-blocks (G), which rest on the timber (A).

Blocking Floor Joists

IN many instances it so happens that the floor height does not work out to an even number of layers of brick. The only way to level up in this instance would be to put down a layer of half thickness brick or a layer of concrete. Since both of these methods are rather expensive the one shown in the illustration may provide a cheaper way out, although it is not recommended that it be



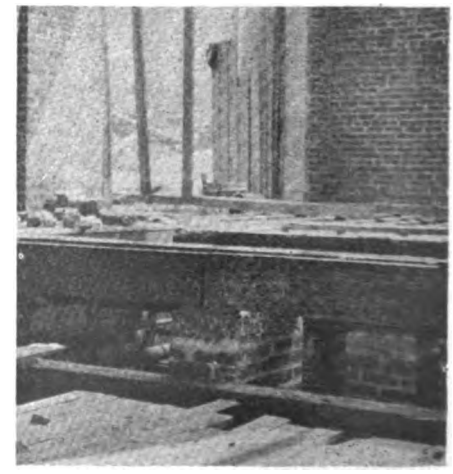


used where other than ordinary class work is desired.

This method consists in blocking up the joists (A) by setting them on small blocks (B) set upon the wall (C). These blocks may be cut to any desired thickness in order to bring the joists to the proper level. Since they will never be thicker than a brick, they will not greatly interfere with the stability of the joists. It must be remembered that when the joists are bricked in the wall they will be well braced and their tendency to wabble will be well overcome.

Stone Caps for Brick Piers

THE illustration shows a nice way for finishing off brick piers. Where stone is available near the job a stone cap will be found to be just the thing. It costs money, of course, to trim the stone to size, but considering the brick and bricklayer's time saved, and the better job produced, the expense is really not so great as it may seem at first glance. Max Marx, of New York City, was the builder for the job shown.



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Residence of Chas E. Meyer, Cincinnati, O.
Built by Wm. Miller & Son

"Patrons All Pleased With this Shingle"

THE most important thing a building contractor can say about a shingle is that his patrons all like it! (See statement of contracting builder at the right of this page.)

For your buyers to like a shingle means that it must have appearance, that it must protect, that it must be durable, and, finally, that it must be economical. The Carey Asfaltslate Shingle answers all of these requirements. This is "the Shingle that Never Curls."

Other successful building contractors are using the Carey Asfaltslate Shingle to help sell their houses—and to help keep those houses sold. The same advantages are available to you. Send the coupon for complete information and sample.

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This is one of a series of statements by leading builders.

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· THE SHINGLE THAT NEVER CURLS ·

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This shingle enables our architects to carry out the most attractive designs. The recently introduced "Silver-Green" color is one of the most desirable we have ever seen.

And, of course, this shingle answers every requirement in regard to protection and durability. It stands up under the severest of weather conditions. We have yet to see a roof made with Carey Asfaltslate Shingles go bad. Needless to say, we first were attracted to the Carey Asfaltslate Shingle because of its non-curling feature.

Our patrons are all well pleased with this shingle. They often express their satisfaction with it.

We heartily recommend the Carey Asfaltslate Shingle, because we know it will please. Especially is it desirable in the large size, which allows a 3-thickness roof and still exposes the shingle 5 inches. This means economy without in any way sacrificing the character of the roof.

(Signed)

Wm. Miller & Son

Building Contractors
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Carpenters recognize at once the superiority of this 50% larger shingle—that gives a 5-inch exposure and makes a 3 thickness roof.

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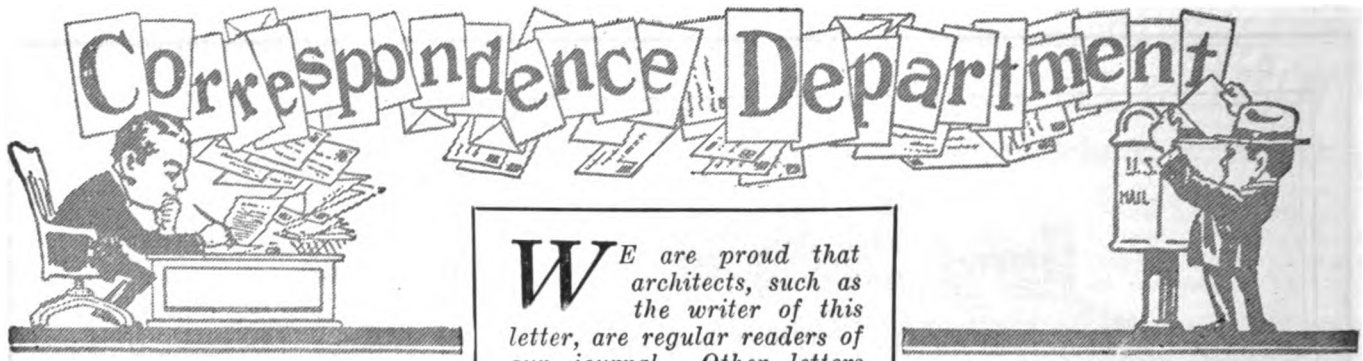
Gentlemen: Please send copy of "Before You Build" booklet and sample to

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WE are proud that architects, such as the writer of this letter, are regular readers of our journal. Other letters about the stock plan have been received and will appear soon. Readers are invited to make use of this department for the discussion of all their problems. The Editors assume no responsibility for personal opinions expressed on this page.

The Function of an Architect

Editor, Building Age and
National Builder:

REFERRING to your issue of September, page 152, on the subject of "Cost of Plans," and wherein you invite communications on this subject, it seems to the writer that it is not only a privilege, but also a duty of all architects who have had the opportunity to read your page, to comment in some way in this connection. While it is not my purpose to occupy a large amount of space, nevertheless, I wish to indorse to the fullest extent the views of the architects of Oklahoma as set forth in your periodical.

I believe they have the right idea and that it is the business of architectural and building magazines to support the architect from the ground up, and to avoid as far as possible the publishing of any matter which might in any way direct the path of the prospective house builder away from the architect.

The mere fact that a house is small doesn't in the least excuse the publisher on one hand, or the house owner on the other, and certainly under no circumstances should it license the A. I. A. or any other organization of architects to throw the designing of the small house into the scrap heap.

In the first place, the architect is, or should be, of importance to his community. He should realize that it is his duty not only to himself but also to his fellow architects that the standard of his profession be kept well elevated. Just as soon as he adopts the policy of selling stock plans, he is lowering that standard and, if persisted in, will drag same in the dust. In the second place, when a community realizes that it has one or more real architects within its boundaries, it will endeavor to erect its buildings without the architect's aid.

In the third place, there is no one better fitted to act as designer, supervisor and advisor in behalf of the man who builds than the architect. All that the public demands is proof of this fact. When this proof is not forthcoming, it is then that the public naturally inclines in the direction of the stock plan, and, in some cases, manages to progress with no plan at all.

In the fourth place, no job should be too small for an architect to undertake. Even though at the highest allowable rates and charges the architect may undergo a loss occasionally in connection with the small house, this can only be occasional. The chances are that the average of his business throughout the year will in the end indicate no loss at all.

There should be satisfaction far above anything of monetary value in the fact that he performed a duty to his community and helped to preserve the continuity of his profession, which, if not preserved in total, will eventually fall into decay; for, as soon as the public learns that it can dispense with the services of the architect on the small house, the same process of elimination will be carried on with regard to the larger house.

The process will further continue until the services of the architect are eliminated with regard to still larger buildings, and the architect will eventually decline from the position of architect to the position of draughtsman for the builder.

It is a well known fact that all the great successes of life, of business and the professions have come about through exercise of regard for small things. It is the writer's own experience that attention to the small assignments has many times produced larger assignments, and at no time has it been difficult to prove to the owner that the retention of the architect is of real value and should never be dispensed with, no matter how small the operation.

I respectfully deny that the public cannot afford the services of the architect with regard to the small house, and most emphatically repudiate the idea that the architect is either too big or too small to undertake anything.

Very truly yours,
C. Godfrey Poggi,
Architect,
Elizabeth, N. J.

Sept. 15, 1925.

Administration Building

Union County Park Commission

Warinanco Park Elizabeth, N. J.



C. Godfrey Poggi Architect

An architect who produces such work as the building shown here need not worry about competition with stock plans

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Here is a saw that appeals to high class mechanics for general carpentry work. It is the most popular saw on the market today. The blade is genuine SILVER STEEL, taper ground, Atkins exclusive demaskeen finish. Skew back, regular or ship pattern. Improved Perfection handle of applewood, embossed, highly polished. Fastened to blade with three nickeled screws and medallion. Price, $3.45; slightly higher price west of the Rocky Mountains.



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This is our best Saw. The Four Hundred. Preferred by expert carpenters. Furnished in regular pattern, skew back; ship pattern, skew back; regular pattern, straight back; ship pattern, straight back. Fitted with Improved Perfection Handle, which prevents wrist strain.

Another popular saw, a companion to No. 53. Straight back, regular or ship pattern. Silver Steel blade, fitted with Improved Perfection Handle.

The No. 51. Made of Silver Steel, regular or ship pattern. Applewood handle of the old style block pattern, polished and embossed.

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Place your order with your hardware merchant. Send 35c for high grade nail apron and ask us to send you free, carpenter's pencil and "Saw Sense."

Atkins No. 400: price $5.65 east of the Rocky Mountains; slightly higher west.

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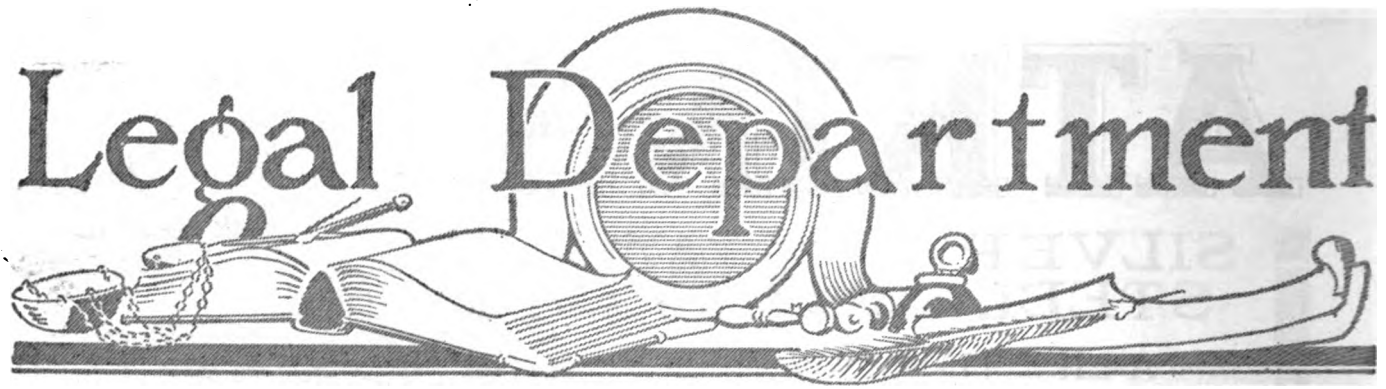
Home Office and Factory: Indianapolis, Ind.

Canadian Factory: Hamilton, Ont.

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Owner's Right to Withhold Payments

By Arthur L. H. Street

WRITES a New York construction engineer: "I built a $14,000 garage and apartment building under contract. Owner has been in possession for more than six weeks, moving in before the plumbing work was completed. About ten days ago he first complained of the plaster, claiming that it was not finished as well as it could have been. On that account he withholds $4,300 due on the contract. I offered to replaster the hallway and bedroom of which he complains, and consented that he hold back a reasonable amount until this work is completed. Can I enforce a lien against the premises and exclude him from possession until he settles?

"When all masonry work on a building is subject is the general contractor bound to stake out building lines, furnish levels, etc?

"Where a building contract is so drawn that part of it is above the signature and part below, is the part below a valid part of the agreement?"

The statement of the case shows no right to exclude the rightful owner from possession. If the work has been substantially completed, a lien can be enforced for the contract price less the fair cost remedying slight defects. But no lien could be enforced should a court find that the plastering was materially defective and subject to remedy only at considerable expense. We advise such replastering as may be required to present a good, workmanlike job, if the plastering is not now in that condition.

The fact that the owner failed for about five weeks to complain of the plastering, after taking possession, is strong evidence of his acceptance of the work as satisfactory. It is also a ground for possible inference that money conditions are tempting the owner to "stall." But if it can be shown that the plastering was not done reasonably well, the chances are that the owner would be upheld in his claim of right to a deduction of enough from the contract price to cover the cost of putting the plaster in that condition in which it should be.

We believe that this is a case where it will be well to have the assistance of a nearby attorney at once, unless the general contractor and the owner can agree on an adjustment.

We are of the opinion that excepting as there may be special agreement, or, in the absence of agreement, a general custom, requiring the general contractor to stake out lines, give levels, etc., it is the duty of the subcontractor to have this done, so far as necessary to enable him to do his work. It seems to be just as much a part of his duty to ascertain lines as to do the actual work.

DO not let the possibilities of legal tangles interfere with the prosperity of your business. Avoid those steps that may lead to controversy and, more importantly, learn how to keep out of difficulties that may arise through no fault of your own. A word or two, very often, may suffice to guard you against an annoying suit. Our legal editor will gladly aid you in this respect.

Defective Work

THE Kentucky Court of Appeals recently had occasion to determine the right of a builder to recover for work done where he has not fully complied with his contract but the owner has accepted the work. In the case before the court—Deaton vs. Jackson Lumber & Supply Company, 272 Southwestern Reporter, 717—it was claimed that miners' houses constructed by plaintiff under a sub-contract with defendant were not fully completed, that some of the ceilings had to be gone over, quarter rounds installed, etc.

"It is well settled that, where the work had been done under a building contract, but is defectively executed, and the person for whom the buildings are erected has accepted and occupied them, the contractor may recover on a quantum meruit (may recover the reasonable value of the work, regardless of the contract price) for the work he has done, less the damages the employer has sustained by the breach of the contract. . . . The measure of recovery is the benefit received. . . . Ordinarily the difference in value of the work done and its value if built according to the contract is the measure of damages, and where what has been omitted can be done at a reasonable cost, the difference in value will be measured by the cost of doing work, considering contract price."

Right to Lien

"WE manufacture cement tile," writes a New Jersey firm, "and parties in the surrounding territory have asked to sell our product for us in their respective territories. They ask thirty to ninety days credit. Should they fail to pay, how and where are we to apply for what is due us, as we do not know where the tiles are being laid."

It is important, in our judgment, that you make sure that your purchasers are good for their obligations, or you should insist upon a bond or guarantee securing payment. Under the facts stated, you would have no right to enforce a lien upon the premises upon which the tile may be installed.

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Pure Copper gives permanent Protection

Weather extremes are harmless when flashings, leaders and gutters made of Anaconda Copper are used.

Anaconda Copper is 99.9% pure and because of the long service that pure copper gives and the consequent freedom from costly repairs and replacements, real estate operators find it easier to sell houses equipped with Anaconda Copper.

Extensive advertising has awakened the buying public to the realization that Anaconda Copper lasts, saves expense, and therefore raises the investment value of the house.

Whether you build on order or build to sell, use Anaconda Roofing Copper.

ANACONDA
from mine to consumer

Anaconda Copper, Brass and Bronze Products eliminate costly repairs and replacements in building construction because they do not *rust*.

Brass Pipe for water supply, Roofing Copper for gutters, leaders, etc., and Bronze Window Screens last indefinitely. They are cheapest in the long run.

THE AMERICAN BRASS COMPANY
GENERAL OFFICES: WATERBURY, CONNECTICUT
Offices and Agencies in Principal Cities
Canadian Mill: ANACONDA AMERICAN BRASS LTD.
New Toronto, Ont.
World's foremost manufacturers of Copper, Brass, Bronze and Nickel Silver

ANACONDA ROOFING COPPER

Stocked by Leading Distributors Everywhere

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WHAT'S NEW



New Materials and Equipment that Keep Your Work Up to Date

New Smokeless Boiler

OXYGEN exists in air 22 per cent, nitrogen in about 78 per cent. Oxygen in unison with fuel gases causes combustion, while nitrogen is the "wet blanket" that causes smoke. Cold air reduces flame, while heated air increases it. Under 800 degrees, flame cannot exist. Heated air over 800 degrees and in contact with flame produces excellent combustion.



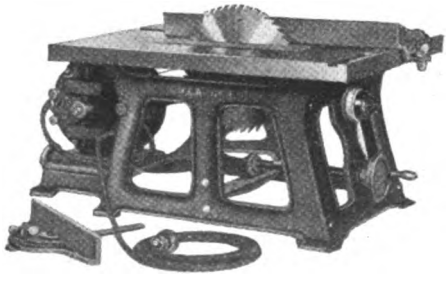
These are facts simply stated that govern every kind of combustion. In the new smokeless, soft coal burning, round boiler of Richardson & Boynton, 260 Fifth Ave., New York, the principles have been applied by including hot blast members. It burns all fuel elements in the boiler, sending out through the chimney steam - colored vapor.

The two most important advantages —fuel economy and convenience—are effected through elimination of annoying smoke and through actual combustion of this smoke.

Any of their round boilers of types "B" or Western may be easily converted into smokeless boilers by attaching hot blast injector members. A descriptive catalog introducing this new type has just been issued for the information of the trade.

Bench Rip Saw

THE No. 8 H & A Bench Rip Saw will rip or cross-cut material up to 2½ inches thick. It is motor driven



from lamp socket or power line. The manufacturers, Heston & Anderson, 601 So. Depot St., Fairfield, Ia., have constructed it for accurate use, such as cabinet and pattern work.

The stock model can be fitted with a 6-inch dado head for cutting grooves up to 1-inch width and 1½-inch depth. Moulding cutter can also be fitted on the arbor.

An aluminum guard completely covers saw blade and complies with all safety laws. It is automatic in action and requires no attention, being easily swung out of the way when changing saws or doing dado work. This guard is adjustable and fits machines already in use.

The No. 8 H & A is a portable unit and light enough to be carried about from job to job. For industrial plants manufacturing woodwork, builders and cabinet workers this machine is well adapted, indeed.

Complete Roof Unit

THE ideal roof should, primarily, be waterproof, fire-resistive and permanent. Because the roof has nothing to carry save its own weight and an occasional snow load, lightness is an important feature. All these are to be considered in designing the roof of maximum service.

In "Holorib," a roof unit made by Holorib, Inc., 2735 Prospect Ave., Cleveland, O., the manufacturers have approached the insulating efficiency of thatch. The complete unit is composed of three parts: First, a fabricated supporting member of 22, 24 and 26 gauge copper bearing steel. Then, this member is insulated with any standard pressure resisting material. Finally, any standard built-up, bituminous waterproofing is applied.

Holorib roofs are secured by fastening them to purlins with specially designed clips. They may also be nailed to wood joists.

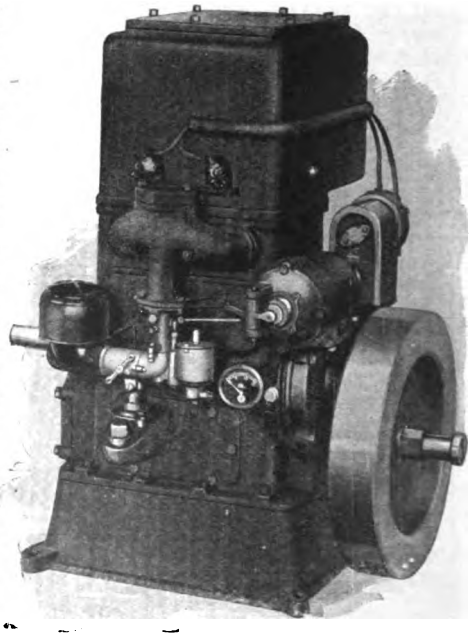
A more complete description in the Holorib catalog includes illustrations, strength tests and tables.

New Industrial Engine

MODEL "AB" two-cylinder engines, built especially for the industrial field, are announced by the manufacturers, Fuller & Johnson Mfg. Co., Madison, Wis. In the desire to design a two-cylinder engine that would live up to the reputation established by their single-cylinder Model "NB," the work in creating this new type represents several years in completing trials and tests.

Briefly, the points to be considered are: First, the special use for which it is planned. Then, it may be operated in either direction of rotation. Power may be taken from either crank shaft or from separate low speed shaft with gear reductions approximately 2½ to 1 and 3 to 1. This makes it possible to have ample sized shafts and variable ratios. Double row ball bearings carry power end of low speed shaft.

Priming cups are furnished as a standard equipment for purposes of easy starting. Connecting rods are Duralumin. Ratings include 5 to 9 H.P., 900 to 1200 R.P.M. for main shaft and 300 to 600 R.P.M. for back gear shaft. New literature describing this model has just been prepared.



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Blue Print Plans

and 24 Page Book "How to Read Blue Prints"

Sent FREE

Our gift to every man in the building game. Sent absolutely free. For we want you to see for yourself . . . at our expense how easily and quickly you learn to read blue prints . . . and can get the knowledge that will make you more money. Don't send a penny. Just mail the coupon.

You Can Become a Building Expert

Plan Reading. Every man who has got very far ahead in any building trade can read blue prints. No man can expect to be a first rate foreman or superintendent until he knows what every line on a plan means and how to lay out and direct work from the architect's plans. By the Chicago Tech. Method you quickly learn to read any plan as easily as you read these words.

Estimating. Of course a man who wants to be a contractor or to hold a big job in a contracting organization must know how to figure costs of labor, material, and everything else that goes into any kind of building. The Chicago Tech. Course covers every detail of this important branch —shows you just how it is done from actual blue print plans.

Superintending. How to hire and direct men, how to keep track of every detail of construction as it goes on, how to get the work done in the least time at the lowest cost is also fully covered in the Chicago Tech. Builders' Course.

Also special courses in Architectural Drafting for builders, taught by practical men. These explained in Special Catalog "D" sent on request.

The Book Tells How

"How to Read Blue Prints" is written in plain, every day English. It is easy to understand . . . and will prove to you immediately how quickly you can get the training that has given other men the chance to work with their heads . . . and to make more money than just the wage scale.

We know this is true. For 22 years we have been training men . . . in their spare time, at home . . . to advance and succeed in the building field. Many have now got good contracting or building businesses of their own. Many are salaried men, foremen or superintendents.

This book is really a Free Trial Lesson in Plan Reading . . . written by a practical building expert. It costs you nothing . . . will teach you how to read Blue Prints . . . and may point the way for you to big money. It will show you how easy our instruction is . . . how quickly you can become an expert . . . can get the practical knowledge that you must have to get ahead quick.

Another Book FREE

We will send you also a book about the Chicago Technical School for Builders. It is free, too. It tells you all about our method of training by correspondence. It shows you how you can make your spare time pay you a handsome profit in a very short while. It tells all about our practical instructors . . . shows every branch and department of our Builder's Courses . . . gives you photographs of our men and departments . . . tells what others have done and what you can expect to do.

Chicago Technical School for Builders is one of the oldest and best equipped schools of its kind in America. Many big builders owe their first step to success to our training. Hundreds of practical men from the building trades attend our day and evening classes at our school for builders here in Chicago. You get this same training . . . from the same practical instructors . . . in your own home by mail.

Train by Mail

Go right on with your work. Your spare time . . . as little or as much as you wish . . . is all you need. Our practical lessons and actual blue print building plans come to you by mail. And the cost is little.

Send the coupon . . . today. It will bring you with the **free** Blue Print Plans and the two books, full information about the Chicago Technical School for Builders. Shows what we have done for hundreds of other men, gives the facts about their success. Tells how some became superintendents in a few months. How others established contracting businesses of their own. Gives all details of this practical builder's course with descriptions, photographs and illustrations.

Start now. It costs you nothing to find out what this practical builder's course is . . . and what it can do for you. If you want to make more money in the building game . . . get the facts about the Chicago Technical School for Builders.

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Please send me your Free Books and Blue Prints for men in the Building Trades. Send postpaid to my address below.

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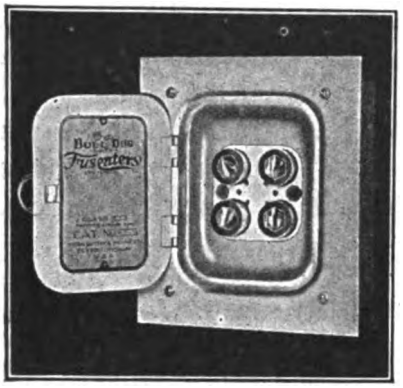
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What's New in Materials and Equipment

Luminized Fuse Case

THE long-standing demand for some method of eliminating the dangers and inconveniences attendant upon replacing blown-out fuses in inaccessible and poorly lighted parts of the house has been promised solution by a new device, "Bull Dog Safety Fusenter." It is, briefly, an ornamental, luminized



case designed to be installed flush with wall surface in any room, hall or stairway of a building. The design leaves no "live" parts and its 70% reflective surface makes it visible in the dimmest light. The manufacturers, Mutual Electric & Machine Co., Detroit, Mich., say that it is as easy and safe to replace a fuse in the "Fusenter" as to renew a burned out electric light bulb.

The marketing cost is low and the product promises an installation at no higher cost than that contingent with other fuse-box equipment. Thus safety and convenience may be added to the list of modern home features without increasing first cost. Builders who are interested in the latest in modern conveniences will find many advantages in this new development.

Reinforcing Stirrups for Concrete Work

CONTINUOUS stirrups, designed to reduce field labor to a minimum, have been brought out by Joseph T. Ryerson & Son, Inc., Chicago, after a careful study of the difficulties encountered in shop and field assembly of beam reinforcing. This type of stirrup is made from rectangular wire mesh furnished in rolls by the wire mills. The material is run through straightening rolls and then cut into sheeets of sufficient width to include the two sides and bottom of the stirrup to be formed as well as the addditional material required to form hooks at each side of the beam.

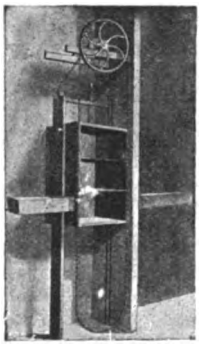
The ends of the hooks after bending are in exact alignment and rest evenly on the wood forms at either side of the beam when placed in position in the field.

After shearing, the sheets are run through a specially designed machine. The hooks are first bent at the edges of the sheet; a plate the exact inside width of the stirrup to be formed is then inserted in the machine, and the sides and bottom of the stirrup are pressed to the desired depth and width.

When delivered at the building it is necessary merely to drop the stirrups into position in the form, then insert the main reinforcement, wire these bars onto the stirrups in two or three convenient places, and the beam is ready for the pouring of the concrete.

Small Compact Dumbwaiter

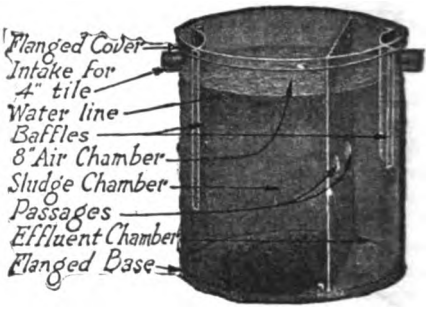
THE "Sylvan" is a moderately priced dumbwaiter, complete, self-sustaining, with automatic brake. Its manufacturer's Highwood Dumbwaiter Co., Closter, N. J., recommended it for small installations where a compact unit is desired. The machine itself has cold rolled steel shaft, gray iron wheels, 20 inch diameter operating sheave, boxes and bolts set on hardwood timbers ready for erection. The car is hardwood, dadoed and varnished, up to 24 inches. Guideruns are of hardwood, grooved for car guides and counterweight guides. In every respect each assembly is ready for installation as it comes from the factory. Parts are designed to fit and go together easily.



Effective Sewage Disposal

UNSEWERED districts have in the last few years received an immense amount of attention on the part of those who are working out this phase of sanitation. The home owner today considers efficient sewage disposal a necessary prerequisite of health and comfort.

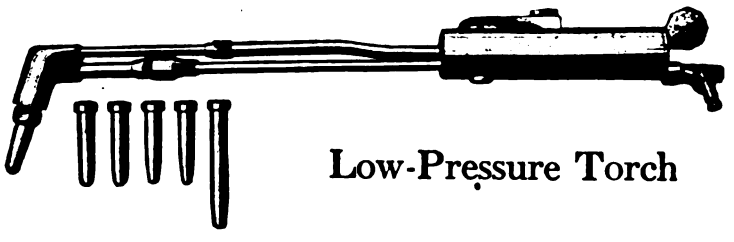
In San-Equip installations are found



the results of several years of research and improvement. Their principles of operation are based on the chemical treatment of sewage. The manufacturer's, Chemical Toilet Corp., 910-916 Free St., Syracuse, N. Y., have designed it for suburban use.

The only movable part is a simple churn type plunger operating to a septic tank. The tank illustrated is made of 12 and 14 ga. copperoid iron enamelled against rust. The use of an iron tank for sewage treatment has been made practical by perfecting the San-Equip process for proofing tank against rust—using a mineral enamel, melted on.

The manufacturers emphasize several features in this type of equipment. First, no emptying or handling of sewage is necessary. Only a small amount of sterilized liquid is discharged daily, thus insuring sanitation. No valves and only one movable part are provided, thereby cutting down repair requirements.



Low-Pressure Torch

OXY-ACETYLENE torches are being more and more used in modern building operations. A low-pressure torch designed to operate on several kinds of gas is manufactured by the Alexander Milburn Co., Baltimore, Md. It is especially constructed for use with low pressure acetylene gas, city gas or hydrogen depending on which is handiest.

This torch utilizes the specialized and standardized parts of the Milburn cutting and welding torches. It is adapted to perform welding as well as cutting work by the mere interchange of tips, performing practically all the cutting and welding operations within range of the process.

The torch is of bronze forgings and special seamless tubing, and the tips are made of solid copper.

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Here's the roofing proposition for the man who wants to make more money



IF YOU could look over our sales records, you'd see card after card that tells this story—Mr. Dealer starts in with a small order—enough Eternit Shingles for one or two jobs. His orders increase in size until he's buying straight cars—and the car orders keep coming closer together as time passes.

It's this constantly increasing volume of business that makes Eternit Rigid Asbestos Shingles the livest proposition for the man who wants his business to grow.

In the first place, you get a quality product. No finer shingles can be made than Eternit. They are handsome, weather-tight, fire-proof and everlasting—*and they are priced so moderately that you can compete with substitute roofings.*

You are given an exclusive territory. When one Eternit roof sells another, as is always the case, that business must go to you. The efforts you put behind Eternit, because of our exclusive sales policy, all go to building up your own business.

We co-operate closely with you in developing your territory. We show you how and help you accomplish it. And all the time our big national advertising campaign is working for you. Our enormous reserve stocks assure you of prompt shipment at all times, which is an important factor in holding your trade.

Other dealers are getting more business with Eternit. You can do the same thing in your territory. Write today for details of our profit-making dealer proposition.

Ask about Eternit Asbestos Building Lumber
—the same materials made up in sheet form.

AMERICAN INSULATION CO.
Roberts Avenue and Stokley Street, Philadelphia, Pa., or Hibernia Bank Building, New Orleans, La.

Eternit

Reg. U. S. Pat. Off.

RIGID ASBESTOS SHINGLES
Make your first roof last

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What's New in Materials and Equipment

Stucco Color Finish

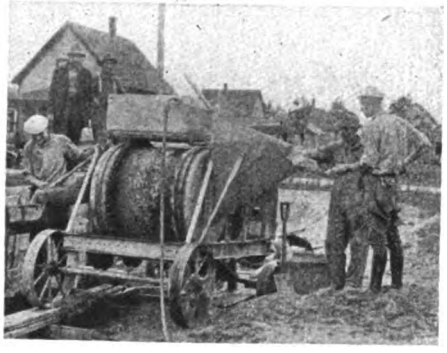
THE modern trend towards richer colors in home decoration is manifested increasingly in the exterior schemes, particularly of stucco houses.

A stucco finish coat produced in a variety of appropriate shades is Bishopric Sunfast Finish, made by the Bishopric Mfg. Co., Cincinnati, O. This finish can be applied rapidly over any exterior brick, cement, concrete or steel surface. It mixes readily and spreads smoothly, forming a permanent, damp-proof coating. It comes as a dry powder and is mixed only with water on the job.

This finish possesses the hydraulic properties of cement, and can be applied to damp concrete. It is made in 12 shades, ranging from Old Ivory to Apple Green.

An Economical Mixer

FOLLOWING almost twenty years of contact with and experimentation in the mixer field, the Helm Brick Machine Co., of Cadillac, Mich., have produced the Helm Improved Simplex, a moderate sized machine. It has been thoroughly tested in their own plant and is in actual use by a large number of contractors. Its simple, economical and durable fea-

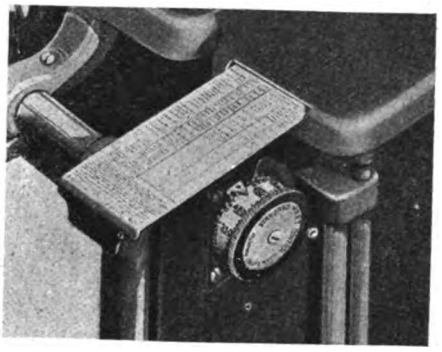


tures mark it as a judicious investment where the need for a concrete mixer is felt.

The drive for the Helm is direct from Novo engine to drum. A substantial, removable housing encloses all moving parts of the engine and driving gears, the chain passing through holes provided. The special set of blades within the drum make for constant churning, shoving and mixing.

New Gas Range Appliances

TWO new features have been added to the Vulcan gas range as announced by the Standard Gas Equipment Corporation, 18 East 41st st., New York, N. Y. A simplified oven heat control and a new speed burner. The latter used in connection with the "Smooth-



Top" range directly effects cooking speed and economy. It is a development of the economical "Hot-Top" burner from the Vulcan range, used commercially for many years with notable success. Because of the intense heat generated the increased top and perfect heat distribution, cooking on the new "Smoothtop" is not limited to the number of burners.

A higher flame temperature is delivered to the cooking surface with unusually fine results. As an additional feature the new "Smoothtop" requires less floor space in the kitchen.

The patent cooking chart is used in connection with the standard heat control and is an exclusive "Smoothtop" feature. It has been designed to put at the woman's finger tips all necessary information to secure the best results in the oven. Made of aluminum and fitting into a slot in the under shelf, it forms part of the range. The temperatures recommended have proven to be those giving the best results in baking, roasting, etc. The illustration shows how neatly and compactly the chart and heat control may be installed.

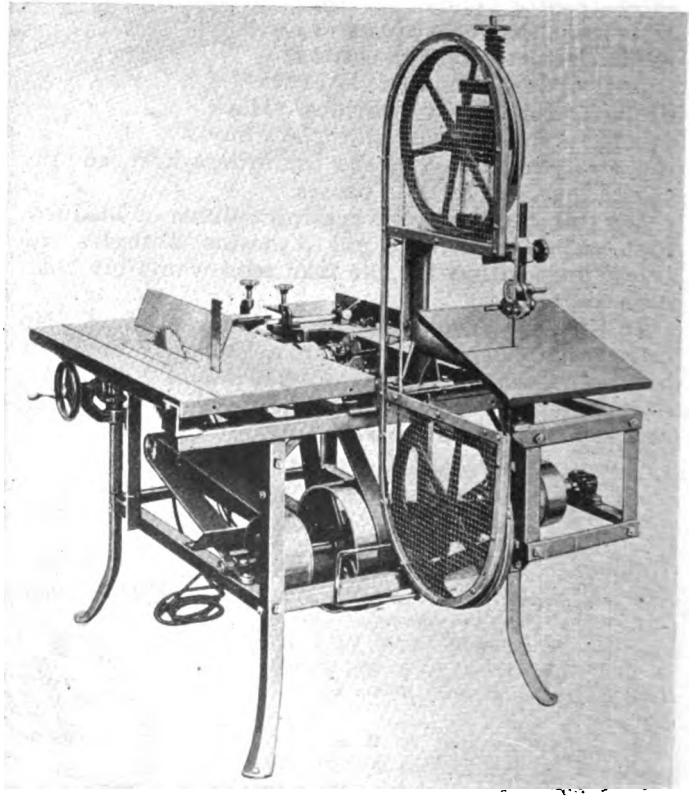


Improved Woodworking Machine

A NEW woodworking machine that is exceptionally small and compact and at the same time complete and well constructed was recently presented by the Parks Ball Bearing Machine Co., of Cincinnati, O. It meets the demand of wood workers for smaller, handier woodworking machinery. No radical change in design has been made, however, and the machine is operated in the same manner in which the workmen had been accustomed to handling larger models.

No special wiring is necessary as it is operated from the ordinary lamp socket; the machine is a complete unit with a self contained power plant. And as the space required for operation is so small it can be set up in the basement, eliminating a special shop.

In short, it contains all features of a large woodworker yet includes the economies that go with lighter operation. It is the "Cabinet Shop Special."



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Every architect knows the lasting qualities of Armco—pure Ingot Iron. No material can equal it for lath. This company has the exclusive right to its use in metal lath.

Specify walls that are made crack-proof by Herringbone

HOW gratifying to you to turn a house over to a client knowing in advance that those handsome stucco walls will not crack.

And especially so, when those very walls cost no more than walls of ordinary construction. As a matter of fact, Herringbone Rigid Metal Lath is *the most economical lath you could specify.* Yet better lath can't be bought.

Herringbone is the one metal lath made of time-defying Armco Ingot Iron. Its first cost is only slightly more than that of ordinary wooden lath. It actually saves labor—saves plaster—saves construction time. And its immeasurably cheaper in the end because it protects the walls for years and years.

The patented mesh of Herringbone literally becomes embedded in the plaster. *It positively can't be shaken loose.* Even slow settling—arch enemy of inferior construction, can't crack stucco that's held fast by Herringbone. The same thing is true of interiors. No lath can equal Herringbone as a guarantee of lasting beauty.

Prospective home buyers are rapidly acquiring a real knowledge of Herringbone advantages. You'll find a ready acquiescence on the part of a client to whom you propose the use of Herringbone.

A copy of our handbook—"Herringbone Rigid Metal Lath" should be in your files. It will give you innumerable details of Herringbone construction both exterior and interior. We will gladly send it to you gratis on request.

Other GF Materials:

Self-Sentering—A combined form, lath and reinforcement for concrete floors and roofs.

Trussit—A reinforcement for solid partitions.

GF Expanded Metal—A concrete reinforcement.

GF Steel Tile—For concrete floors.

GF Steel Lumber—Used in place of wood joists and studs.

GF Steel Channels—For fireproof partitions and ceilings.

GF Peds—Spot grounds for attaching trim to concrete and plaster.

GF Duplex Steel Bridging—For wood joist floors.

GF Steel Sash.

GF Steel Basement and Casement windows.

GF Lintels.

GF Industrial Steel Doors.

GF Wire Mesh.

GF Waterproofings—For concrete and masonry.

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GF Herringbone Rigid Metal Lath

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USEFUL CATALOGS



Now is the time to bring your catalog files up-to-date. Refer to these two pages and to the Selected List of Manufacturers' Literature, then write for catalogs you need for reference.

Woodworking Machines in your shop will enable you to turn out every piece of lumber you need as you want it and when you want it. All types of saws, sharpers, grinders, etc., are listed in the catalog of the Sidney Machine Tool Co., Dept. 308, Sidney, Ohio.

Asphalt Shingles surfaced with slate and stone particles to produce a variety of attractive colors are illustrated in an interesting catalog issued by the Keystone Roofing Mfg., Co., York, Pa. The shingles come in three weights and a well defined shadow line is caused owing to the thickness of the shingle.

Scaffold Brackets increase your margin of profit by saving time, lumber and money. Brackets for all purposes are described in the catalog of the Elite Mfg. Co., Ashland, Ohio.

Mixers of the low charging type are economical both of men and material. A concrete mixer in which the drum opening is almost as wide as the drum itself is detailed in a catalog of the B. M. Cropp Co., 2340 W. Kinzie St., Chicago, Ill.

Stucco that has an insulating, strengthening and fire-resistant base is the product of the Bishopric Manufacturing Co., 17 Este Avenue, Cincinnati, Ohio. Its ideal qualities are described in an illustrative booklet sent upon request.

Disappearing Stairs mean that so much extra space is made available in what otherwise would be devoted to a stair well. For the small home where every inch of space is at a premium, the builder should bear in mind this convenience. The Disappearing Stair Co., Cleveland, O., furnish literature.

Cedar Chests are an adjunct to every home and where a real cedar closet is built into the house the sale is assured as far as the careful housewife is concerned. Cedar closets with moth-preventative properties are described in literature of the Kilmoth Products Corp., 50 Union Square, New York, N. Y.

Concrete Mixers and brick machines of sturdy, efficient construction are illustrated and described in the catalog issued by the Concrete Equipment Co., Holland, Mich. The catalog features a one-man brick machine of the latest pattern.

Finishing Lime that "spreads like warm butter" is the product of the Kelly Island Lime and Transport Co., Cleveland, Ohio. An attractive booklet giving specifications and descriptive data on finishing lime may be obtained by writing to the Company.

Levels and Transits are instruments that will prove of great value on any building job. Complete information on a design that insures instantaneous action and adjustment may be obtained from B. L. Makepeace, Inc., 387 Washington St., Boston, Mass.

Steel Scaffolds give the workman assurance of safety and enable him to do better work. A folding steel scaffold that stands on two legs and hooks around the studding is described in the literature of the Steel Scaffolding Co., 1605 N. Governor St., Evansville, Ind.

Wood-Mosaic Floors provide an artistic finish for home interiors and add a touch of signal variety. Valuable information showing how this feature can be capitalized on is treated within the catalog of the Wood-Mosaic Co., New Albany, Ind.

Drawing Instruments of good quality should be part of the permanent equipment of every up-to-date builder. A list of these necessary office appliances is contained in an illustrative catalog distributed by the David White Co., Inc., 902 Chestnut St., Milwaukee, Wisc.

Radiators of approved type will help the house-selling campaign of the aggressive builder. How the hot water heating system can benefit the contractor is told in literature of the American Radiator Co., 104 West 42nd St., New York, and Buffalo, N. Y.

Floor Clips are used for anchoring wood floors to concrete floor slabs in a very simple manner. "Six Quick Steps" is the title of the catalog describing one type made by the Bull Dog Floor Clip Co., 108 N. First Avenue, Winterset, Iowa.

Mineral Wool, when used for lining the walls of a house, renders it more comfortable both in summer and in winter. A catalog describing the use of this insulating material can be secured from the U. S. Mineral Wool Co., 280 Madison Ave., New York.

Sash Balances are new features in the manufacture and installation of windows. They are easy to install and simple of design. An interesting catalog, illustrated, is furnished interested builders by the Pullman Mfg. Co., Rochester, N. Y.

Wall Board finds another use in furnishing the interior of the summer cottage. A folder takes this up in an informative manner and is obtainable from the American Gypsum Co., Port, Clinton, Ohio.

Tilting Mixers that combine speed, capacity and power are described in the special folder, giving specifications, weights and optional equipment, issued by the Kwik-Mix Co., Port Washington, Wisc.

Interlocking Wooden Columns for porch, pergola and for the home entrances are described in an elaborate catalog issued by Hartmann-Sanders Co., 6 East 39th St., New York, and of Chicago.

Heating Plants of all description; from the pipeless to three run floor or wall registers are illustrated in a booklet of the Boyce Furnace Works, 160 W. 8th St., Waterloo, Iowa.

Rotary Exhaust Ventilators find a necessary place in the construction of factories, lofts, barns and similar buildings. A complete description of several types suitable for various installations is contained in a booklet by E. G. Washburne & Co., 208 Fulton St., New York.

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COLORBLENDE

ASBESTOS SHINGLES



Colorblende Asbestos Shingle Roof on one of many houses erected by Realtor G. A. Nichols, Oklahoma City, Oklahoma.

—*that helped sell houses in Oklahoma City*

THE threefold advantages of Johns-Manville Colorblende Asbestos Shingles to the progressive builder were realized by Mr. Realtor G. A. Nichols of Oklahoma City.

He knows that the beauty these shingles give a house inspires an immediate desire for possession in every home seeker.

And he knows their fire-safety appeals to the home seeker's instinctive desire for the greatest protection for his family and property.

Add to this the prestige of the name Johns-Manville which the home seeker recognizes as that of a nationally known manufacturer of quality building materials—a name that automatically transfers to the particular house the accumulated good-will of over half a century of Johns-Manville growth, and the effect of thorough and consistent advertising.

These things taken together constitute powerful selling help. Not only Mr. Nichols, but many others, are using it to excellent advantage.

JOHNS-MANVILLE INC., 292 MADISON AVENUE, AT 41ST STREET, NEW YORK CITY
Branches in 62 Large Cities. For Canada: CANADIAN JOHNS-MANVILLE CO., Ltd., Toronto

Asbestos and its allied products
INSULATION
BRAKE LININGS
ROOFINGS
PACKINGS
CEMENTS
and
FIREPROTECTION
PRODUCTS

JOHNS-MANVILLE
Asbestos Shingles

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Some More Useful Catalogs

Boilers of electric welded unit steel may be obtained at reasonable cost when turned out in quantity production. Small residence sizes are listed and described in the new folder of the Heggie-Simplex Boiler Co., Joilet, Ill.

Blue Print Dryers with thermostatic control and copper cylinders dry without wrinkles, 8 linear feet of wet print per minute. These are known as Pease Sheet Dryers and are made by C. F. Pease Company, 813 N. Franklin St., Chicago.

Tile, known to the trade as Alundum, insures slip preventive qualities for every type of building. "Norton Floors" is the name of the monthly published by the Norton Company, Worcester, Mass., dealing with this product.

Insulating Lumber is being marketed on a large scale and Celotex is promoting its interests through national advertising. Just how far reaching this campaign is is told in the new broadside of the Celotex Company, 645 N. Michigan Avenue, Chicago.

Sash Cord is an item too often overlooked in the quality home. That a good product is as necessary here as elsewhere is brought home in a positive manner in literature of the Samson Cordage Works, Boston, Mass.

Garage Doors that swing up out of the way are convenient features for the one or two car garage. An eight page folder of the Dennis Easy Lift Door Company, 12312 Dexter Blvd., Detroit, Mich., illustrates and describes their product..

Power Saws that are designed for utility and permanence are taken up in a folder entitled "Saw Your Way to Successs." W. B. & J. E.. Boice, Toledo, Ohio, are the publishers.

Stucco and Stucco Base have become matters of important consideration for builders who are called upon to build modern homes. "For All Times and Clime" is the name of an unusually fine catalog just published by the Bishopric Mfg. Co., Cincinnnati, Ohio.

Residence Elevators are no longer luxuries beyond the reach of the average home owner. One type that combines all usable features and yet is reasonable in cost is described in the literature of the Sedgwick Machine Works, 156 West 15th Street, New York.

Hardware for sliding doors, cab doors, etc., are designed today to meet every requirement. An economical type is dealt with in the folder of the A. L. Hansen Mfg. Co., 5037 Ravenswood Avenue, Chicago, Ill.

Concrete Reinforcing Service is the subject of an interesting catalog giving complete description, specifications and other data on various reinforced devices. This work is compiled by Joseph T. Ryerson & Son, Inc., Chicago.

Trailer Trucks that are adaptable for further increasing the capacity of the truck are taken up in a new book of the Trailer Truck Company, Nashotah, Wis. Efficiency, economy and service are the keynotes.

Batch Mixers increase the scope of builders' efforts. Bull Dog mixers are obtainable in various models to fit builders' requirements. Catalog No. 37 covers the complete line and is published by Raber & Lang Mfg. Co., Kendallville, Ind. Additional literature takes up continuous mixing types and cement brick making machinery, concrete pipe molds and also deals further with hand and power batch mixers.

Electric Fountains may harmonize with their surroundings provided the design is of the right sort. Types that are admirable for use in the sun parlor and conservatory are described in neat folders of John Fink Company, Inc., 104 Lexington Avenue, New York City.

Hoisting Equipment is represented in so many different pieces of apparatus that the builder must make sure of his exact requirements. Several models of hoisting equipment and accessories are presented in a manual of Williamette Iron & Steel Works, Portland, Oregon.

Automatic Water Heaters make possible real home conveniences. One type of simple, durable and economical heater is described in two booklets distributed by the Ever-Hot Heater Co., 5189 Wesson Avenue, Detroit, Mich.

Cement Tools pave the way to economies in labor and more conservative bids. Their ability for the average work of the progressive builder is described in a new folder published by the Abram Cement Tool Co., 3816 Grand River Ave., Detroit, Mich.

Built-in Equipment that enables the occupants to fold the bed away during the day provides additional space in the small home. Bed closets are being built in many modern homes today and the builder should have up-to-date literature, such as that published by the American Bed Co., 18th & Park Ave., St. Louis, Mo.

Floor Surfacing is done efficiently and quickly by an electrically driven machine manufactured by the American Floor Surfacing Machine Co., 514 So. St. Clair St., Toledo, Ohio. Builders will do well to write this company for descriptive catalogs.

Asphalt Shingles of double thickness that insure a tight snug roof with attractive shadow lines are described in an illustrated catalog in colors issued by the Beckman-Dawson Roofing Co., 111 West Jackson Blvd., Chicago.

Flooring Lumber is an item to be scrutinized by the contractor for the best in wear and wisest in economy. A descriptive booklet of many points of interest in buying lumber is to be had from the Long-Bell Lumber Co., Kansas City.

Steel Casement Windows have reached an established position in the list of modern features to be incorporated in the new home. A new catalog describing the product of the Detroit Steel Products Company, 2250 East Grand Blvd., Mich. has just come off the press and will be sent to those interested.

Insulated Roofs have many advantages, particularly when they are fire-resistive and water proof. Sheets of steel, specially fabricated, are the material described in literature of Holorib, Inc., Cleveland, O.

Lumber to meet the builders' requirements may be had today with recognized brands to identify it. Such a standard product may be had from the Jackson Lumber Company, Lockhart, Alabama.

Standard Frame Construction for the window assures a product that will not warp, shrink, or rot. The Andersen Lumber Co., Bayport, Minn., describes in a new catalog a standard frame in seven units with a choice of 121 sizes, made of white pine in all the exposed portions. The progressive builder should be fully informed on this subject.

Construction Machinery that includes concrete mixers, concrete block machines, pumps, hoists, etc., is described in detail in the catalog of the Construction Machinery Co., 83 Vinton St., Waterloo, Iowa.

Stucco is the subject of two new catalogs: "Flint-Rock All-Mineral Stucco" and "Architex Finish," now available to builders interested in this phase of interior and exterior finish. Publishers are Flint-Rock Stucco Co., Inc., Dayton Builders Exchange, Fourth St. Arcade, Dayton, O.

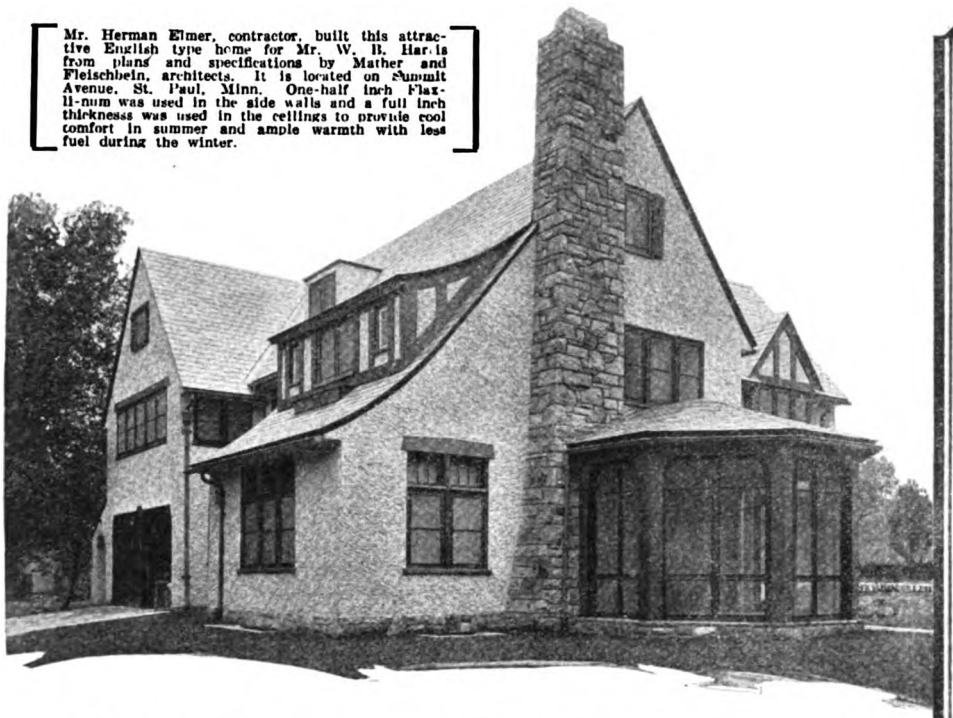
Dumbwaiters for apartments and one- and two-family houses mean convenience and satisfied tenants. Catalog No. 5 of Highwood Dumbwaiter Co., Closter, N. J., describe several types that may be purchased at moderate cost.

Ventilating Brick, the size of a standard brick, and made of cast iron or bronze with a galvanized iron flue provide the builder with an effective means of "building in" ventilating facilities. Such a product is described in a folder of Benjamin Riesner, 260 E. 78th St., New York.

Laundry Chutes offer a simple and sanitary method of handling laundry. A glass lined type is made by Pfaudler Co., 217 Cutler Bldg., Rochester, N. Y., and described in this company's folder.

Woodworkers, known as "20th Century's," provide for a 17-inch cross cut. Details of operation and construction may be had from the makers, Cresson-Morris Co., 18th and Allegheny, Philadelphia.

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Mr. Herman Elmer, contractor, built this attractive English type home for Mr. W. B. Harris from plans and specifications by Mather and Fleischbein, architects. It is located on Summit Avenue, St. Paul, Minn. One-half inch Flax-li-num was used in the side walls and a full inch thickness was used in the ceilings to provide cool comfort in summer and ample warmth with less fuel during the winter.

Well-Built and Built-Warm!

Provide the Latter with Flax-li-num
It Marks You as a Builder of Good Houses

THE opinions of people who come to you for building may vary on design, floor plan and materials, but on the subject of comfort and economical heating they are united 100%. They all *want* these twin benefits.

It is to your decided advantage to supply them. For, in the measure that you do, just so will your reputation as a builder of Built-Warm houses increase and bring with it increased business and greater net profit.

Flax-li-num, the correct building insulation, is a scientifically correct heat-resisting material—and a practical building material. It is the most effective material you can use in the building of homes that will be cool on the hottest days of summer and easy and economical to heat during the winter.

There is no costly element of installation connected with Flax-li-num. It is made so as to be easy to install—semi-rigid. It will not tear or break, and cannot be punctured by misdirected hammer blows. One man can easily install a thousand square feet per day.

When Flax-li-num is used, a smaller heating plant can be used. This represents an immediate saving. And the saving of from 25% to 33-1/3% in fuel which its use makes possible, continues as long as the house is used.

The use of Flax-li-num will pay you a profit. Write to the sales and engineering department of this company for facts and figures as to what other contractors are accomplishing with this effective building insulation.

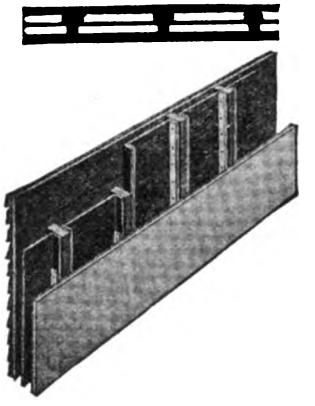
FLAX-LI-NUM INSULATING CO.
ST. PAUL, MINN.

Flax-li-num

The Correct Building Insulation and Sound Control Material



Flax-li-num is made solely of flax—for the toughness and everlasting qualities of pure linen fibres; felted into semi-rigid sheets—for rope-like strength and flexibility; and made one-half inch thick for walls and one inch for roofs—to give the protection against heat and cold that fifteen years of laboratory and field work has proven necessary.



Easy to handle and install without cracking, breaking, crumbling or warping. Makes air tight joints around all the uneven and irregular places in house construction.



One-half inch of Flax-li-num in outside w[illegible] one inch in the top s[illegible] keeps the heat in[illegible] saturating the w[illegible] and being lost [illegible] air. In summer [illegible] prevents the rays of the sun from saturating the roof and making the upper floor rooms hot and unlivable. The Flax-li-num lined house requires less radiation and a smaller boiler. It burns several tons less fuel each winter.

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Review of Building Situation

THE highest construction record on record was reported for August according to F. W. Dodge Corporation. In 36 states (not including Gulf District), the total reached $589,690,200, exceeding last March, the previous high record, by $42,719,500. The increase over July was 11 per cent and over August last, 66 per cent. All established records were broken by contemplated work as well in August. The total was $820,602,200, 17 per cent more than July, and 62 per cent more than August last. Actual operations were distributed: 45 per cent to residential, 18 per cent to commercial, with the remainder evenly apportioned. To some extent, increased activity in and around New York was responsible for the tremendous August volume.

In New England, August contracts totalled $48,937,600, 62 per cent over August, 1924. 53 per cent went for residential and 16 per cent for commercial. New work reached $36,527,000.

The new record figure in New York District is 24 per cent over the old one, made in March. The total, $209,985,200, is 72 per cent in advance of July, and 142 per cent over last August. Residential took 52 per cent of this, and commercial, 24. New construction reports $204,641,500.

Mid-Atlantic District reports $51,819,700—7 per cent more than the preceding month and 38 per cent in excess of a year ago. Residential led with 53 per cent. New work doubled July total and was 164 per cent over last August.

Pittsburgh District at $77,078,000 exceeded August last by 61 per cent. 31 per cent was contributed by residential and 33 by public works. New work doubled July totals and was more than three times that reported for August, 1924.

The $125,027,200 reported by Middle West District represented an increase of 25 per cent over July and of 40 per cent over the corresponding month last year. Residential led with 40 per cent.

In the Northwest contracts totalled $7,730,700, 14 per cent below July and 21 below August last. 40 per cent went for residential.

An increase of 26 per cent over last August was found in the $69,111,800 total for South Atlantic District.

In Gulf District, the total $21,665,600, represented an increase of 20 and 75 per cents over July, 1925, and August, 1924, respectively. Industrial building led with 34 per cent, due to a 7-million-dollar power project at New Braunfels, Texas.

Record of August, 1925, Building Contracts Awarded

Classification of Buildings	SECTION OF COUNTRY New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North West District	South Atlantic District	Gulf District	Totals
Commercial Buildings.	$7,938,500	$49,473,700	$4,084,600	$11,921,000	$15,497,700	$844,200	$16,089,200	$2,157,400	$108,006,300
Educational Buildings.	3,379,000	9,972,700	3,424,600	5,362,800	6,819,100	716,000	3,993,000	2,354,600	36,021,800
Hospitals, etc.....	469,000	5,127,700	669,400	1,430,000	2,830,000	942,000	1,249,600	248,000	12,965,700
Industrial Buildings...	2,321,300	3,963,800	1,773,500	5,025,500	6,557,700	177,000	2,874,000	7,337,500	30,030,300
Military and Naval...	75,000	.....	189,500	87,000	.....	.....	.....	.....	351,500
Public Buildings.....	623,600	2,160,700	1,047,700	242,700	1,199,000	116,000	594,900	282,000	6,266,600
Public Works.....	4,485,200	19,610,500	6,416,700	25,129,800	23,123,100	1,210,400	16,024,700	891,400	96,891,800
Religious & Memorial.	920,500	3,896,000	847,900	1,536,000	7,383,000	54,000	1,832,500	818,400	17,288,300
Residential Buildings..	25,693,000	109,402,900	27,365,700	23,707,400	49,742,000	3,095,100	24,478,900	6,811,300	270,296,300
Social & Recreational.	3,032,500	6,377,200	6,000,100	2,635,800	11,875,600	576,000	1,975,000	765,000	33,237,200
Total	$48,937,600	$209,985,200	$51,819,700	$77,078,000	$125,027,200	$7,730,700	$69,111,800	$21,665,600	$611,355,800

Building Projects Contemplated, August, 1925

Classification of Buildings	SECTION OF COUNTRY New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North West District	South Atlantic District	Gulf District	Totals
Commercial Buildings.	$5,228,000	$52,249,200	$5,656,100	$10,073,000	$19,052,600	$1,321,200	$20,305,500	$2,933,900	$116,819,500
Educational Buildings.	1,345,900	5,513,500	3,508,000	1,773,500	8,534,000	538,000	4,641,000	1,505,500	27,359,400
Hospitals, etc.....	597,000	1,799,600	1,185,000	6,425,000	2,351,000	298,000	888,800	275,500	13,819,900
Industrial Buildings...	2,714,300	7,029,800	2,321,500	6,063,500	12,120,500	336,200	6,326,700	1,249,500	38,162,000
Military and Naval...	.....	100,000	30,000	.....	100,000	.....	60,000	50,000	340,000
Public Buildings.....	471,000	534,000	138,000	73,000	3,101,600	129,000	568,800	98,000	5,113,400
Public Works.....	4,403,000	23,281,600	107,916,300	102,636,100	26,744,400	2,051,400	35,496,000	2,932,400	305,461,200
Religious & Memorial.	785,000	1,212,000	1,298,900	1,921,500	2,869,000	159,000	2,851,500	444,400	11,541,300
Residential Buildings.	18,738,300	104,821,800	37,284,300	22,590,300	56,849,800	4,089,400	38,413,600	7,706,400	290,493,900
Social & Recreational.	2,244,500	8,100,000	1,609,000	2,730,500	11,133,200	137,000	2,733,000	586,500	29,273,700
Total	$36,527,000	$204,641,500	$160,947,100	$154,286,400	$142,856,100	$9,059,200	$112,284,900	$17,782,100	$838,384,300

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Fenestra Casement Windows



Sell The Housewife and You Sell the House

Men buy houses, but women buy homes—homey homes, modern homes fully equipped with all the new, up-to-date features and conveniences. Sell the housewife and you sell the house.

Right now, women are interested in Fenestra Casement windows. They like the cozy home-like appearance; the increased light; the better control of ventilation. They like the easy washing feature that does away with sitting on the sill; they like the easy operation with no sticking, warping or binding.

At the same price you pay for wood windows you can build in these new, modern features that women like. It's a big step toward quicker sales and better satisfied buyers.

We'll be glad to send you complete details on Fenestra Casement, Basement and Garage windows. You can get them through your dealer and have them delivered with the rest of your building material.

DETROIT STEEL PRODUCTS COMPANY, A-2252 E. Grand Blvd., Detroit, Mich.
Factories in Detroit, Mich., Oakland, Calif., and Toronto, Ont., Canada.
For Canada: Canadian Metal Window & Steel Products, Ltd.
160 River Street, Toronto, Ont.

Fenestra

for homes, large and small
shops and small factories
garages and service stations
stores and other buildings

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Trend of Material Prices

THE following are wholesale prices of basic building materials in the three markets which set prices for the rest of the country.

These prices are presented to show the trend of the wholesale market, which forecasts prices in the retail market. They are not prices which the average contractor can buy at, but are quoted to show him the movement of materials so that he can buy to better advantage. All prices are for carload lots, F. O. B. market quoted, unless otherwise noted.

Following in conjunction with the Review of Building Situation these prices will prove invaluable.

NEW YORK PRICES

	Aug. 25	Sept. 25
LONG LEAF YELLOW PINE—		
B. & Better Edge Grain Flooring, 25/32x2¼" Face	$86.00	$88.00
Dimensions, S1S1E, No. 1 Common, 2x4 in., 10..	43.75	43.75
Timbers, Merchantable, 05, 12x12", 10 to 20'....	53.00	53.00
B. and Better Ceiling, ⅛x3¼.....	42.00	42.00
B. and Better Partitions, ⅛x3¼ in.....	56.00	56.00
B. and Better Finish, 1x4".....	68.50	68.50
No. 1 Common Boards, 1x8".....	49.75	50.00
NORTH CAROLINA PINE—		
No. 2 and Better Flooring, 13/16x2¼".....	$62.00	$62.00
Roofers, 13/16x5½ in.....	33.50	33.00
DOUGLAS FIR—		
No. 2 Clear and Better V. G. Flooring, 1x3"....	$66.50	$67.00
No. 1 Clear V. G. Flooring, 1x4 in.....	69.00	69.00
No. 2 Clear and Better Ceiling, ⅝x4 in.....	41.50	41.50
No. 2 Clear and Better Novelty Siding, 1x6"....	54.00	54.00
No. 2 Clear and Better V. G. Stepping.....	91.00	91.50
WESTERN RED CEDAR—		
B. C. Perfection Shingle, per M.....	$7.23	$7.23
Washington Perfection Shingles, per M.....	6.83	6.85
Clear Bevel Siding, ½x6 in.....	43.75	43.75
CANADIAN SPRUCE—		
No. 1 Lath, 1½".....	$7.50	$7.50
Dimensions, 2x4", 10 to 16'.....	36.50	36.50
HARDWARE FLOORING—		
Clear Quartered White Oak, 13/16x2¼".....	$152.50	$152.50
Clear Plain White Oak, 13 16x2¼".....	102.50	102.50
Clear Plain Red Oak, 13/16x2¼".....	94.00	94.00
Clear Maple, 13 16x2¼".....	102.00	102.00
(All lumber prices furnished by The Lumber Manufacturer & Dealer)		
COMMON BRICK—		
Per M f. o. b. job.....	$19.00	$18.50
PORTLAND CEMENT—		
Bbls. in car lots to contractors, delivered.....	$2.50	$2.50
STRUCTURAL STEEL—		
Per 100 lb. at warehouse.....	$3.24	$3.24
CRUSHED STONE (cu. yd.)—		
¾ in.....	$3.25	$3.25
1½ in.....	3.15	3.15
WALL BOARD—		
Per 1,000 sq. ft. in lots under 1,000 sq. ft.....	$50.00	$50.00
Per 1,000 sq. ft. in lots 1,000 to 2,500 sq. ft.....	45.00	45.00
METAL LATH—		
2.2 lb.—26 gauge, price per 100 sq. yd. delivered..	$0.21	$0.19
2.5 lb.—24 gauge, light, price per 100 sq. yd., deliv.	0.25	0.22
3.4 lb.—24 gauge, heavy, price per 100 sq. yd. del.	0.29	0.25
(Add 5 cents per sq. yd. for galvanized.)		
LIME (Hydrate)—		
Finishing, per 50 lb. bag.....	$0.60	$0.65
Masons, per 50 lb. bag.....	0.40	0.45
SAND AND GRAVEL—		
Sand (per cubic yard).....	$2.15	$2.00
¾ in. Gravel (per cubic yard).....	3.00	3.00
1½ in. Gravel (per cubic yard).....	3.00	3.00
FACE BRICK—		
Tapestry (delivered).....	$47.00	$47.00
Harvesale (delivered).....	43.00	43.00
Caledonian (delivered).....	45.00	45.00
Smooth Grey (delivered).....	46.00	46.00
Fiske Lock, f. o. b. factory.....	39.50	39.50
SHINGLES—		
Asphalt, Single (per square).....	$6.50	$6.50
Asphalt strip (per square)	7.00	7.00
STAINED WOOD SHINGLES—		
10 in. Extra Clear (per square, delivered).....	$10.75	$10.75
18 in. Eureka (per square, delivered).....	11.00	11.00
18 in. Perfection (per square, delivered).....	12.00	12.00
24 in Royal (per square, delivered).....	12.00	12.00
VITRIFIED SEWER PIPE—		
4 in. (cents per foot).....	$0.12	$0.13
6 in. (cents per foot)	0.18	0.19
SLATE ROOFING—		
Slatington, 8x16 in. per sq. at quarry.....	$8.40	$8.40
CORNER BEADS (Galvanized)—		
Per foot	$0.04	$0.04
WALL TIES (Galvanized)—		
Per thousand	$3.75	$3.75
FLUE LINING—		
8½ x 8½ in., per foot.....	$0.34	$0.34
8½ x 13 in., per foot.....	0.45	0.45
HOLLOW TILE—		
8 x 12 x 12 in. heavy. Each, delivered.....	$0.25	$0.25
HAIR—		
Per bushel.....	$0.60	$0.60
PLASTER BOARD—		
32 x 36 x ½ in. Each.....	$0.26	$0.26
MAGNESITE STUCCO—		
Per ton.....	$43.00	$45.00
TILE—		
1 in. Square or Hexagon, White, per sq. ft...	$0.27	$0.27
3 x 6 in. White Wall.....	0.50	0.50
8 x 8 in., Red Floor.....	0.40	0.40

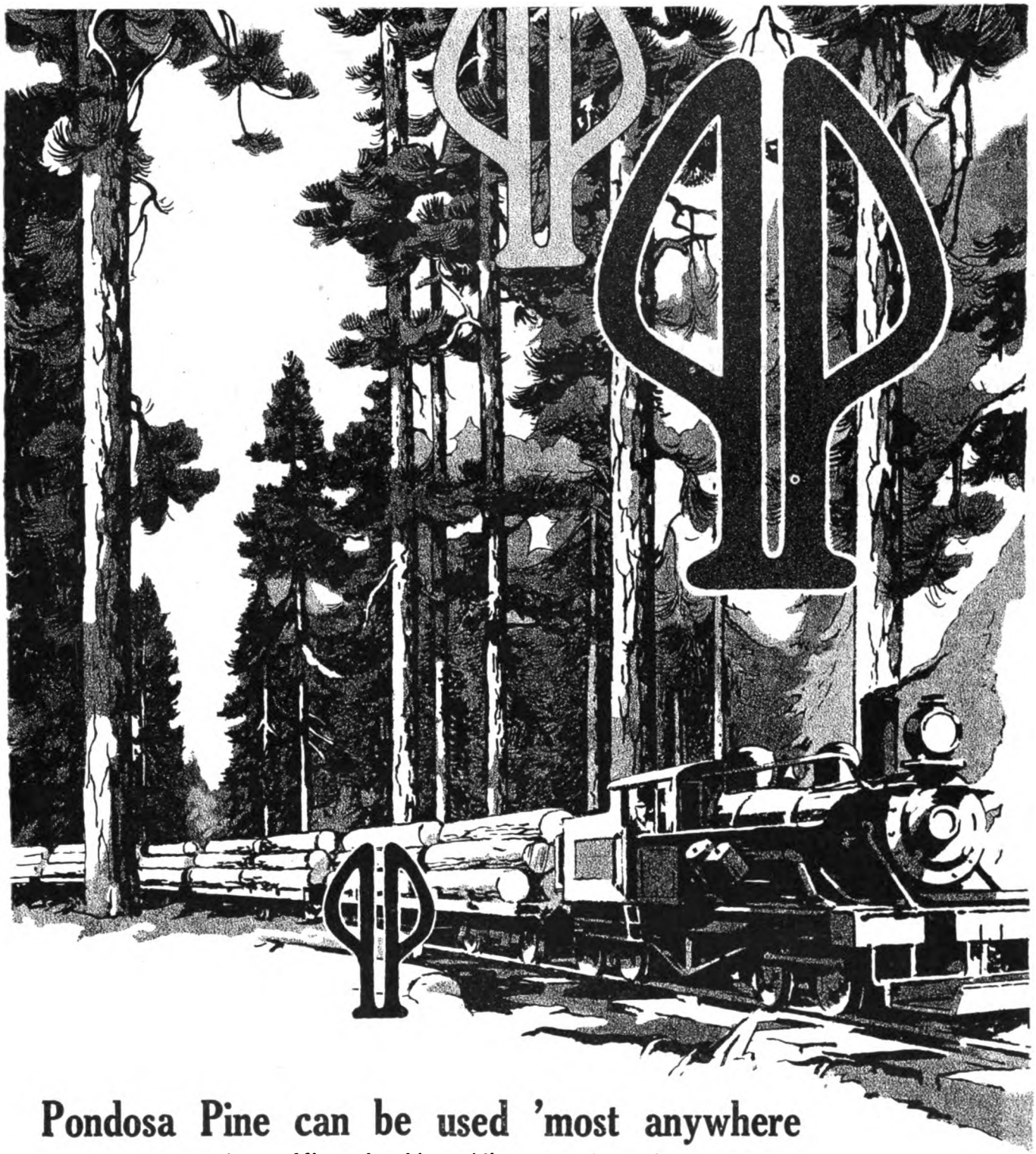
CHICAGO PRICES

YELLOW PINE—		
Boards, 1 x 8, No. 1 Com.....	$42.00	$42.00
Ceiling, ⅝ x 4 B. and Btr.....	42.00	42.00
Dimension No. 1, 2 x 4, 12 to 14 ft.....	32.00	32.00
Drop Siding, 1 x 6, B. and Btr.....	51.00	51.00
Finish, 1 x 4, B. and Btr.....	58.00	58.00
Flooring, B. and Btr. E. G., 1x3.....	75.00	75.00
Lath, 4 ft., No. 1.....	6.20	7.50
Timbers, Long Leaf No. 1, 10-20 ft., S4S, 6x12 to 12 x 12.....	50.00	58.00
HARDWOODS—		
Maple Flooring, 13/16 x 2¼ in. clear.....	$96.00	$96.00
Oak Flooring, ¾ x 2, Cl P., White.....	70.00	69.00
Oak Flooring, 13/16 x 2¼, Cl. Pl., White.....	96.00	95.00
REDWOOD—		
Bevel Siding, S1S1E, 8 ft., 20 ft., ½ x 4, clear	$34.25	$34.25
Finish, S2S or S4S, 1 x 6 to 8 in., clear.....	82.50	82.50
WESTERN RED CEDAR—		
Bevel Siding, ½ x 4, clear.....	$35.00	$41.00
Shingles, extra clear, 16 in.....	4.46	4.61
COMMON BRICK—		
Per M. f. o. b. job.....	$12.00	$12.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers	$2.20	$2.20
STRUCTURAL STEEL—		
Per 100 lbs. at warehouse.....	$3.00	$3.00

ST. LOUIS PRICES

YELLOW PINE—		
Boards, No. 1 Com, 1 x 4.....	$41.50	$40.75
Dimensions, No. 1, S1S1E, Short Leaf, 2 x 4 in. 12 x 14 ft.....	32.50	32.50
Finish, S2S, B & Btr., 1¼ & 1½x5, 10 & 12 ft..	85.00	88.50
Flooring, B. and Btr., E. G., 1 x 3.....	80.00	83.00
Flooring, B. and Btr., F. G., 1 x 3.....	59.00	63.00
Lath, 4 ft., No. 1.....	6.60	7.00
Timbers, No. 1, rough, short leaf, 6 x 12 to 12 x 12 in., 10 to 20 ft.....	44.75	44.75
CALIFORNIA REDWOOD—		
Finish, S2S, Cl., 1 x 6 in.....	$82.50	$82.50
Siding, 4 in. Bevel, 8 to 20 ft.....	31.25	31.25
8 in. Colonial.....	66.75	66.75
8 in. Bungalow.....	47.25	47.25
HARDWOODS—		
Oak Flooring, ⅛x1½ & 2 in. clear, Qtr. White..	$107.00	$107.00
Maple Flooring, 13/16 x 2¼ in., clear.....	100.00	100.00
RED CEDAR—		
Siding, ½ x 6, clear.....	$42.50	$42.50
Shingles, clears, per M.....	4.56	4.71
COMMON BRICK—		
Per M. f. o. b. job	$18.00	$18.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers	$2.30	$2.30
STRUCTURAL STEEL—		
Per 100 lbs. at warehouse.....	$3.15	$3.15

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Pondosa Pine can be used 'most anywhere

Stairs, sash, moulding, sheathing, siding, *any* place where the specifications call for good, dependable lumber which is light, yet strong—that's the place for Pondosa Pine. Sovereign of softwoods, they call it—this wonder-wood from the Inland Empire of the Great Northwest. Every trade-marked stick is rigidly *graded*, thoroughly *seasoned* and carefully milled. For sale at all good lumber yards. Write for the Pondosa story. Address Dept. 23, Western Pine Manufacturers' Association of Portland, Oregon.

Pondosa Pine

The Pick o'the Pines



Write for this booklet.

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News, Notes, and Comment

Prize for Best Cellars

CASH prizes of $4,200 will be awarded in the "Ideal Cellar Competition," a national contest for architects and draftsmen, being conducted by the American Radiator Company.

Reasoning on the basis that the owners' investment is proportionately equal to that in the principal rooms, but the return upon that investment is entirely disproportionate under ordinary circumstances, this contest aims to develop the cellar as a full measure of useful or livable space.

Another step in modernizing the cellar is through the recognition of the possibilities of designing and planning the cellar in the home of eight rooms or more in such a manner that cellar space will be provided with a series of practical utility features and one or more livable rooms. The purpose of the competition is to place the problem of cellar planning before the architectural and building professions in an interesting form of suggestions. It promises to exercise a new influence on the three million dollar expenditure now being made annually in cellar construction.

The contest is built around one of the company's heating plants, the Ideal Type "A" Heat Machine, which is specified in all plans and drawings submitted to the competition.

The closing date was August 25th and announcements of winning contestants will be made shortly.

Plan for Reforestation

THE program for reforestation at a rate equal to the progress and denudation and following three years after logging has been announced by the Long-Bell Lumber Company, R. A. Long Bldg., Kansas City, Mo. Experiments in direct seeding will be conducted and such other species as redwood, Port Orford cedar and white pine will be tried on a commercial scale. To care for this work a forest nursery will be established near Ryderwood, Oregon.

M. B. Nelson, President of the company, makes this announcement following a three months intensive survey made by Captain J. B. Woods, forest engineer of the company. The new forest nursery will be for the production of planting stock sufficient to complete the stocking of 3,000 to 4,000 acres of land each year.

In explaining the program, Mr. Nelson said that care is being taken to remove all snags large enough to constitute fire hazard. Slash disposal is being carried on and a carefully organized fire patrol is maintained.

The program is being mapped out for a period of five years. At the end of that period it may be possible to synchronize the Long-Bell Lumber program with those of the state and federal governments. However, the company is instituting its own program at its own expense. Work will begin immediately.

On Weathering

THE sign illustrated here appears to be the work of some old and rather unfriendly wood carver. According to the Forest Products Laboratory, however, it was not carved, but was originally painted in red and now is weathered away leaving lettering in relief.



Microscopic examination showed that rot organisms were not responsible for its disintegration. Wood subjected to ordinary wettings and dryings is not apt to be attacked by such rot organisms. Weathering, however, is the "raising of the grain," checking, cracking, splitting and gradual disintegration of wood due to stresses set up in the piece by its swelling and shrinking with the alteration of rain and sunshine. It also includes any mechanical wear which may result from wind, rain, frost, hail and similar causes.

This is a most interesting example of the results of attacks by the elements. We speak of the effects of "weathering," but seldom do we find such a splendid example of what a few years will do to an exposed, unpainted surface.

Accidents Decreasing

A CURRENT report of the National Safety Council reveals the average severity rate of 4.603, which is much lower than the construction section showed in either 1923 or 1922.

W. D. Keefer, director of the industrial safety division, in commenting on these new figures, prophesies that hazards in the building industry can be eliminated provided members keep up the excellent prevention work that they have been doing.

Two companies, one of them employing more than 400 men, finished the year without a lost time accident. The number of permanent partial disabilities reported by the 23 members of this year is much lower than the six members reported last year. These facts help in showing the decrease over those of 1924.

Of Trade Interest

MR. ESKEL NORDELL,. formerly technical director and head of the chemical laboratory of the Wayne Tank & Pump Co., is to have charge of the water softener department. Mr. Nordell who is considered one of the foremost water treating authorities in the country has been associated with the Wayne company since 1922.

From Albany, N. Y., comes the announcement of an increase in the authorized capitalization of the Upson Company of Lockport, New York, from $2,000,000 to $5,750,000.

This represents a growth within ten years from a capital of $25,000 to the present figure. Indicating this same steady growth is the present plant of the Upson Company consisting of 15 large buildings of the modern daylight type, covering 16 acres.

The Cinder Concrete Corporation, organized under New York State Laws, has obtained from Crozier-Straub, Inc., and Cinder Products Corp., the sole and exclusive right to grant licenses under the Straub and Bo Patents for the Manufacture and sale of cinder concrete products. Mr. Straub and Mr. Bo as President and Vice-President will be in general charge of the business and Mr. C. Edgar Allen will be Manager of the company and in charge of its principal office in New York. The new corporation is officered as follows: President, Francis J. Straub; First Vice-President, Sigurd Bo; Second Vice-President, Joseph A. Beck; Treasurer, E. B. Cadwell; Asst. Treasurer, George W. Farron; Secretary, Charles L. Pierce.

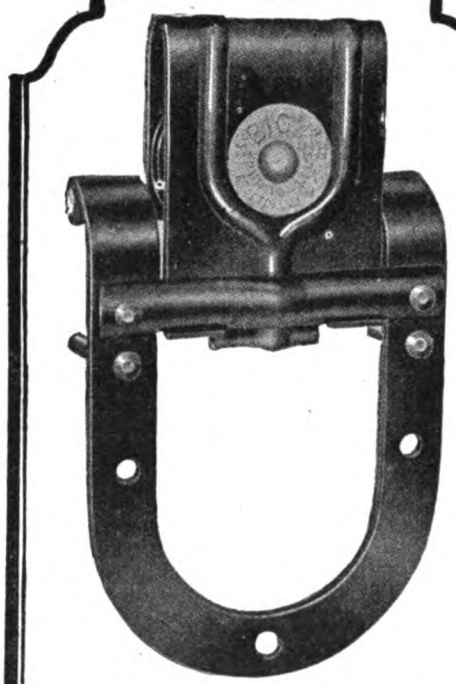
The main office of Cinder Products Corp. will be at No 120 W. 42nd St., New York and branch offices in Union Trust Bldg., Rochester, N. Y., and in Park Bldg., Pittsburgh, Pa.

A VERY regrettable error occurred in the September issue in the article headed "House of the Month." In describing work done on the estate of William Lucking, Esquire, Cincinnati, O., credit for all tile setting was not given to the Wm. H. Jackson Company, 2 West 47th Street, New York City, the rightful recipients of such acknowledgment. Their work included the setting of faience tile and added much to the beauty of "Covedale Gables."

A recent announcement states that C. F. Beatty, at present Advertising Manager of New Jersey Zinc Co., has, in addition, been appointed Sales Manager of Master Painters Supply Co., Inc., a subsidiary.

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NATIONAL



Specifications of Big 4 construction

It is built entirely of steel on extremely heavy lines, and in the simplest form of construction. Roller Bearings are of the anti-friction type. Hanger is both rigid and flexible—easy to attach—fastened to but one side of the door — which holds it closer to the track than any other type of hanger — the axle has a shoulder on the end to prevent wheel housing from being pressed together and bind the hub of the wheel. Axles and rivets are sherardized to prevent rust. The wheels and frame are japanned before assembling and the wheels are reamed out after japanning. No japan in the bearings. Two studs together with the hook turned under the rail, absolutely prevent Hanger from jumping the track.

Every door set guaranteed to fit and set right.

Big 4 BARN DOOR HANGERS

TAKE the *old* barn door for instance. It deserves a better fate than hanging — on those antiquated, rusty, creaking, broken hangers. Hang it on Big 4 and give it a new lease of life.

Install Big 4 Hangers for new doors. *Always* install them for *new* doors. They'll outwear the doors! And the doors will glide over the rails like the 20th Century. A little child can lead them!

Economical, easy to attach, durable—they give permanent satisfaction to the builder, the contractor and the owner.

Write for Big 4 Booklet

NATIONAL MANUFACTURING COMPANY

STERLING **ILLINOIS**

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Selected List of Manufacturers' Literature

For the Service of Builders, Contractors, Architects and Engineers

THE publications listed in these columns are the most important of those issued by leading manufacturers identified with the building industry. They may be had without charge, unless otherwise noted, by applying on your business stationery to BUILDING AGE AND NATIONAL BUILDER, 239 West 39th Street, New York, or the manufacturer direct, in which case kindly mention this publication. Either the titles or the numbers may be used in ordering. This list is an editorial feature maintained for the convenience of our readers. It is not a part of the advertiser's contract and BUILDING AGE AND NATIONAL BUILDER assumes no responsibility for its correctness.

(See also Alphabetical Index, page 222)

AIR TOOLS—See Tools, Air

ALUNDUM FLOORS—See Flooring Composition

ARTISTS' MATERIALS—See Drafting Materials

ASBESTOS PRODUCTS

Asbestos Shingle, Slate & Sheathing Co., Ambler, Pa.

2281. *Ambler Asbestos Shingles.* Catalog. 44 pp. Illus.

2282. *Ambler Asbestos Corrugated Roofing and Siding.* Catalog. 36 pp. Standard Purlin Spacing Tables.

2283. *Ambler Asbestos Building Lumber.* 32 pp. Illus.

2284. *Engineers' Data Sheets.* 44 pp. Illus. Specifications for Ambler roofing and siding.

Johns-Manville, Inc., 292 Madison Ave., New York.

3551. *Johns-Manville Products.* Catalog. 16 pp.

Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City N. J.

4121. *Shingles That Last.* Illus. Deals with metal and asbestos roofing.

4123. *Asbestos Roofing and Colored Asbestos Shingles.* Literature.

ASBESTOS ROOFING—See Roofing Materials

ASH DUMPS—See Dampers, etc.

ASH HOISTS—See Hoists

AXES—See Edge Tools

BAND SAWS—See Woodworking Machinery

BAR BENDERS AND CUTTERS

Koehring Co., 31st and Concordia Sts., Milwaukee, Wisc.

3711. *Koehring Bar Benders and Cutters.* Folder. 4 pp. Illus

3712. *Koehring Booklet.* Lists complete line of products.

BATCH BOXES—See Mortar Boxes

BATHROOM ACCESSORIES—See Bathroom Fixtures

BATHROOM FIXTURES

Chemical Toilet Corp., 801-21 Free St., Syracuse, N. Y.

5041. *Sani-Equip Septic Tanks and Waterless Toilets.* Booklet. Illus. Descrices a chemical toilet for unsewered districts.

Crane Co., 836 S. Michigan Ave., Chicago.

2845. *Homes of Comfort.* 100 pp. Presents complete line.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.

3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.

Kenney-Cutting Prod. Corp., 507 5th Ave., New York.

3631. *Kenney Curtainless Shower.* Catalog A. Illus. Concerns several types of curtainless showers.

Wheeling Sanitary Mfg. Co., Wheeling, W. Va.

5041. *Descriptive Literature.* Treats of the combination bathtub.

BEDS, DOOR—See also Built-In Features

American Bed Co., 18th St. and Park Ave., St. Louis, Mo.

2071. *Out-O-Site.* 20 pp. Treating of portable, disappearing beds.

Concealed Bed Corp., 434 Garland Bldg., Chicago.

2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these concealed beds.

2772. *The Book of Beds.*

2773. *Rooms Without Walls.*

Murphy Door Bed Co., 22 W. Monroe St., Chicago.

4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments. Contains data on steel and wood cabinets ironing boards, steel kitchens, etc.

BENCH GRINDERS—See Grinding Machinery

BITS—See Tools

BLACKBOARDS—See Slate

BLOCK MACHINERY—See Concrete Machinery

BLOWERS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.

2343. *Descriptive Literature on Blowers.* Illus.

BLOW TORCHES

Combination Blow Torch Mfg. Co., 2805 W. Van Buren St., Chicago.

5591. *Literature.* Describes combination blow torch, soldering iron, and branding iron.

Everhot Mfg. Co., Maywood, Ill.

3032. *Everhot Blow Torches.* Circular.

BLUE PRINT—See Drafting Material

New York Blue Print Paper Co., 102 Reade St., New York.

4161. *General Catalog.* Illus. Includes complete line of drafting materials, surveying instruments, rules, etc.

Peerless Blue Print Co., 341 5th Ave., New York.

4271. *Peerless Catalog.* Illus. Comprises descriptions of surveyors', builders', and draftmen's equipment.

BOILERS—See Heating Equipment

BOOKS—See also Plans

Audel & Co., Theo., 63 West 23rd St., New York.

2321. *Helping Hand Books for Mechanics, Engineers, Electricians and Builders.* 32 pp. Illus. Describes Audel Hand Books.

Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.

2711. *How to Read Blue Prints.* Booklet Illus. Includes plans.

2713. *Building Construction.* Booklet. Descriptive Literature.

Keith Corp., 100 N. 7th St., Minneapolis, Minn.

3601. *Keith's Magazine.* Monthly. Subscription offer of $3.25 includes 278-page De Luxe edition, "Beautiful Homes."

Walker Co., Frank R., 536 Lake Shore Drive, Chicago.

4881. *How Practical Forms Increase Contractor's Profits.* Illus. Catalog. 64 pp. Describes all their books and forms.

BRACKETS—ROOFING, ETC.

Ajax Building Bracket Co., 1551 Rydal-Mount Rd., Cleveland Heights, O. (formerly Ajax Bracket & Outlet Co.).

2021. *Ajax Folding Metal Sheathing and Roofing Bracket.* Illus.

Elite Mfg. Co., Ashland, O.

3011. *Scaffold Brackets.* Catalog. Deals with application.

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.

3172. *Gabriel Folding Brackets.* Descriptive literature.

Richards-Wilcox Mfg. Co., Aurora, Ill.

4427. *Descriptive literature.* Includes prices.

Seaman Safety Bracket Corp., Rochester, N. Y.

4541. *Why Take Chances?* Illus. Catalog. 24 pp. Gives facts relating to *Seaman Safety Brackets.*

Steel Scaffolding Co., Evansville, Ind.

4651. *Catalog C.* Illus. 16 pp. Describes *Trouble-Saver Steel Scaffolding,* giving prices.

BRANDING IRON

Combination Blow Torch Mfg. Co., 2805 W. Van Buren St., Chicago.

5591. *Literature.* Describes combination blow torch, soldering iron, and branding iron.

Everhot Mfg. Co., Maywood, Ill.

3032. *Literature.* Describes their branding iron and blow torch.

BRICK

American Face Brick Assn., 130 N. Wells St., Chicago.

2111. *The Story of Brick.* 5 pp. Illus. History and requirements.

2112. *A Manual of Facebrick Construction.* 116 pp. Illus. Types of facebrick for chimneys, etc. Price, $1.00.

2113. *The Home of Beauty.* 72 pp. Illus. 50 prize designs for small brick houses. Price, 50 cents.

2114. *Architectural Details in Brick Work.* 8 series, totalling 124 prints of brick work details. Price, $1.50 per set.

2115. *English Precedent for Modern Brick Work.* 100 pp. Illus. Plates and drawings of Tudor and Gothic. Price, $2.00.

2117. *Bungalow and Small House Plans.* 4 booklets. 50 pp. Illus. Contains 98 reversible designs. (1) 3-4 rooms; (2) 5 rooms; (3) 6 rooms; (4) 7-8 rooms. 35 cents. $1.00 per set.

Common Brick Manufacturers' Assn., 2121 Guarantee Title Bldg., Cleveland, O.

2761. *The Home You Can Afford.* 64 pp. Illus. Contains 62 designs with fl or plans of houses and bungalows. 10 cents.

2762. *Your Next Home.* 64 pp. Illus. Contains 60 designs with floor plans of brick houses and bungalows. Price, 10 cents.

2763. *Farm Homes of Brick.* 24 pp. Illus. Offers 10 selected designs with floor plans of farm houses. Price, 5 cents.

2764. *Brick—How to Build and Estimate.* 72 pp. Illus. Includes brick construction data and estimating tables. 25 cents.

2765. *Skintled Brickwork.* 15 pp. Illus. Shows 7 selected houses by Chicago architects. Price, 15 cents.

2766. *Brick Silos and How to Build Them.* 40 pp. 10 cents.

Fiske & Co., Inc., 115 Federal St., Boston; New York and Watsontown, Pa.

5691. *Fisklock and other Face Brick.* Apppeals to builders from popularity angle.

Hocking Valley Products Co., Logan, O.

3401. *Face Brick.* Descriptive literature.

Riesner, Benjamin, 230 E 78th St., New York.

5791. *Riesner Ventilating Brick.* Folder. Illus. Describes standard size iron brick for ventilating.

BRIDGING—See also Metals and Metal Specialties

General Fireproofing Co., Youngstown, O.

22213 *GF Metal Building Specialties.* Folder, A. I. A. File No. 16E2. 20 pp. Illus. Includes information on bridging, etc.

BUILDING BLOCKS

Crozier-Straub, Inc., 120 W 42nd St., New York.

2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

BUILDING CONSTRUCTION

Crozier-Straub, Inc., 120 W. 42nd St., New York.

2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

General Fireproofing Co., Youngstown, O.

3221. *The Fireproofing Handbook.* 72 pp. Illus.

Milwaukee Corrugating Co., Milwaukee, Wis.

4001. *Metallic Construction for Modern Home.* 16 pp. Illus. Shows home interiors *with Milcor Stay Rib.*

Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.

4201. *Northwestern.* General Catalog. 16 pp. Illus. Covers complete line of Northwestern products.

Smith Co., T. L., Milwaukee, Wisc.

4593. *Smith Excavator and Loader.* Bulletin No. 408. Illus.

Sykes Metal Lath Co., Niles, O.

4731. *Metal Lath for All Purposes.* Illus. Booklet. 20 pp.

4732. *Catalog and Handbook.* Illus. 32 pp. Deals with metal lath.

Truscon Steel Co., Youngstown, O.

4791. *Truscon Floorstyle Construction.* Form D-352. 16 pp.

4792. *Truscon Standard Buildings.* Form D-398. 44 pp.

4793. *Truscon Building Products.* Illus. Form D-376. 112 pp.

4794. *Modern School Construction.* Form D-395. 16 pp.

BUILDING PAPER

Bird & Son, East Walpole, Mass.

2451. *Waterproof.* 6 pp. Illus. Describes *Neponset* building paper.

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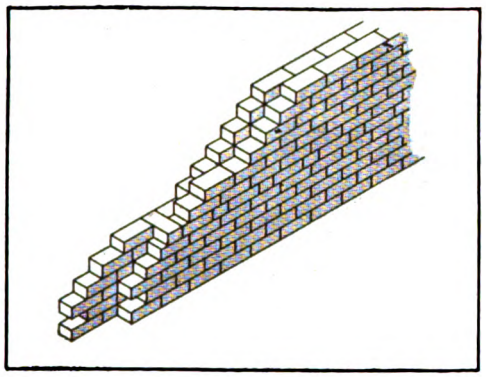
Four Brick Walls *and* Four Prices

PEOPLE *want* brick homes. They sell easier—they look better—and they offer a range in price to meet every purse. Burned clay is the builder's best friend.

With the new Economy wall, you offer brick construction at the cost of frame.

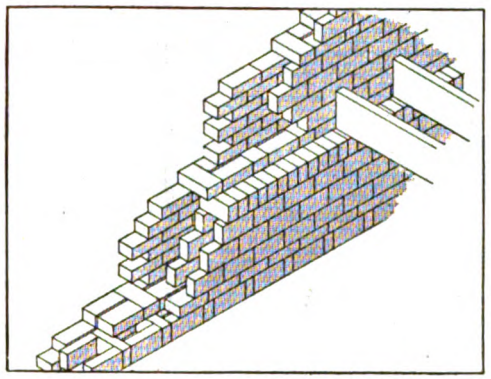
Next is the Ideal all-rolok hollow wall made of standard size brick, costing only a little more.

Another type of Ideal wall is the Ideal rolok-bak. Then there is the solid brick wall, the highest standard masonry construction of the ages.



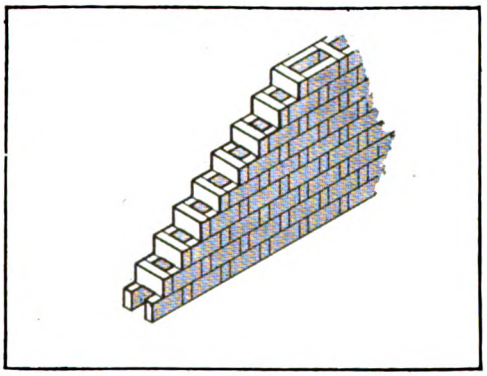
The Solid Brick Wall

You can build an ordinary six-room house of solid brickwork for as little as four or five hundred dollars more than for frame. The added price you can get for the brick home is much greater than its small additional cost. A wall of solid brickwork offers greatest fire protection and keeps the house cooler in summer and warmer in winter.



The Ideal Rolok-Bak Wall

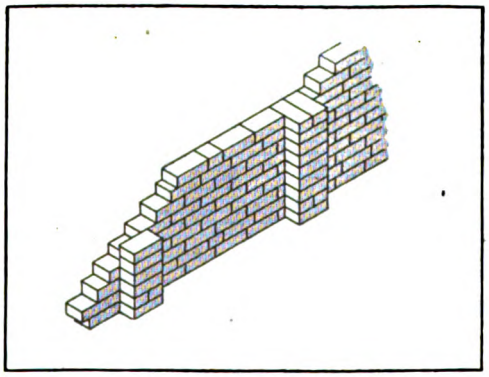
This type of construction costs less than hollow unit back-up. It requires only 3½ brick on edge per sq. ft. for the back-up in an 8-inch wall. To prove the economy in material in this back-up, multiply your price of brick by .35. Bricklayers lay 600 brick on edge per day in the 8-inch wall, and 1100 with the 12-inch wall. These figures have been exceeded on actual construction.



The 8-inch Ideal Wall

By actual, practical performance the Ideal all-rolok brick wall is the lowest cost hollow wall. 9 brick per sq. foot are required for an 8-inch Ideal all-rolok wall. To prove the economy in material in this wall, multiply your price of brick by .9.

A test wall recently laid by an official committee of Detroit Union bricklayers indicated a production of 1150 brick per day per man, and the Detroit Union has officially approved 1000 as easily possible.



The Economy Wall

Actually with the Economy wall, first cost for a brick home is no more than for less enduring types of construction. Its exterior appearance is the same as any brick wall. It is safe, strong and dry with all the known economies of brick in freedom from painting and repair. Economy wall is suitable for small homes, garages, filling stations, industrial housing and other light construction.

Send for folders describing these walls.

THE COMMON BRICK MANUFACTURERS' ASSOCIATION of AMERICA

2133 Guarantee Title Building, Cleveland

Chicago . Chamber of Commerce Bldg.
Denver . . . . . 1735 Stout St.
Detroit, Mich. 400 U. S. Mortgage Trust Bldg.
Hartford, Conn. . . . 226 Pearl St.
Los Angeles . . . 342 Douglas Bldg.
Nashville, Tenn. . Harry Nichol Bldg.
New Orleans, La. 904 Carondelet Bldg.
New York City 1710 Grand Central Terminal Bldg.
Philadelphia . . . City Centre Bldg.
Portland, Ore. . . . 906 Lewis Bldg.
Salt Lake City . . . 301 Atlas Bldg.
San Francisco . . . 811 Sharon Bldg.
Seattle, Wash. . . . 524 Burke Bldg.
St. Louis, Mo. . . 605 Wainwright Bldg.
Springfield, Mass. 301 Tarbell-Watters Bldg.

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Selected List of Manufacturers' Literature

(Continued from page 160)

Brown Company, Portland, Me.
2531. *Bermico Sheathing Paper.* Folder. Illus. Contains samples of four different weights of Bermico.

BUILT-IN FEATURES
Alberene Stone Co., 153 W. 23d St., New York.
2031. *Illustrated literature* on soapstone laundry tubs.
Concealed Bed Corp., 434 Garland Bldg., Chicago.
2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these Concealed Beds.
2772. *The Book of Beds.*
2773. *Rooms Without Walls.*
Garden City Plating & Mfg. Co., 1430 So. Talman Ave., Chicago.
3192. *Clothes Closet Plans.* Folder. Discusses convenience and capacity of closets built with *Garcy Garment Carriers.*
Herrick Refrigerator Co., Waterloo, La.
3371. *Refrigerators.* Catalog. 56 pp. Illus.
Hess Warming and Vent. Co., 1207 So Western Ave., Chicago.
3381. *Snow-White Steel Cabinets and Mirrors.* Booklet. 16 pp.
Kilmoth Products Corp., 50B Union Sq., New York.
3671. *No More Folding, Packing or Mussing.* Folder. Illus. Deals with use of built-in cedar closets.
3672. *Kilmoth.* Leaflet. 2 pp. Explains Kilmoth cedar lining.
Lupton's Sons Co., David, Philadelphia, Pa.
3847. *Catalog.* Treats with partitions and other built-in features.
Morton Mfg. Co., 5133-43 West Lake St., Chicago.
5751. *Literature.* Illus. Includes prices, sizes, etc., on Acme steel medicine cabinets.
Murphy Door Bed Co., 22 W. Monroe St., Chicago
4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments. Contains data on steel and wood cabinet ironing boards, steel kitchens, etc.
Ohio State Stove & Mfg. Co., 666 Lake Shore Drive, Chicago.
4231. *The Kab-Range.* Catalog BA-3. Illus. Describes a combination of the *Packer All-Steel Kitchen Cabinet* and *Ranges.*
Wasmuth-Endicott Co., Snowden St., Andrews, Ind.
4941. *12-page Folder.* Features *"Kitchen Maid"* unit systems. Also another mailing piece, showing built-in kitchen apparatus.
White Steel Sanitary Furniture Co., Grand Rapids, Mich.
5341. *Literature.* Describes their "White-Steel" Medicine Cabinets and other "White-Steel" products.

CABINETS—See Built-In Features
CALCIUM CHLORIDE—See Concrete Process
CANVASS—See Roofing Materials
CARBURETORS—See Trucks, Motor Supplies
CARPENTERS' TOOLS—See Tools, Edge, also Tools
CASEMENTS—See Windows, also Windows, Metal
CASEMENT HARDWARE—See Hardware

CASTINGS, Iron, and Cast Products
Forest City Foundry & Mfg. Co., Cleveland, O.
3142. *Light Grey Iron Castings* and *Cast Mail Boxes.* Descriptive.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus. Covers entire line of products.

CAULKING AND GLAZING COMPOUNDS
Bird & Son, East Walpole, Mass.
2452. *The Handy Man's Helper.* 6 pp. Illus. Presents various uses for *Bird's* plastic cement.
Weatherproof Caulking Co., 756 Washington Av., No., Minneapolis, Minn.
4971. *Literature.* Gives information and prices.

CEILINGS
Lloyd, W. H. S., 105 W. 40th St., New York.
5742. *Anaglypta.* Booklet. Illus. Deals with line of friezes used as substitute for plaster relief.
CEILINGS, METAL—See Metals, etc.
CELLAR DRAINS—See Plumbing Equipment

CEMENT—Portland
Alpha Portland Cement Co., Easton, Pa., and Chicago.
2061. *Alpha Cement—How to Use It.* New edition of handbook. 114 pp. Illus. Deals with forms of construction.
2062. *Alpha Aids.* Illus. Periodical dealing with various phases of the industry.
2063. *Alpha Service Sheets.* Instructions on concrete construction.
Kosmos Portland Cement Co., Louisville, Ky.
3741. *For Enduring Masonry.* Folder. 8 pp. Illus. Discusses use of *Kosmortar*, a building mortar.
Lehigh Portland Cement Co., 30 E. 42nd St., New York.
3771. *Build the Castle of Your Dreams.* 32 pp. Deals with concrete home construction.
3772. *Permanent Satisfaction in Your Building.* Illus. Book. 48 pp. Treats of fire-safe farm construction.
3773. *The Lehigh Magazine.* New House monthly.
Louisville Cement Co., Louisville, Ky.
3821. *Brixment for Perfect Mortar.* Handbook. Contains data.
Pennsylvania Cement Co., 131 E. 46th St., New York.
4291. *Pennsylvania Concrete Manual.* Handbook. 48 pp. Illus. Discusses clay, reinforcing, setting time, slump test, etc.
4292. *Three Booklets.* Deal with phases of Concrete work. By Frank W. Skinner, C.E.
Portland Cement Assn., 111 W. Washington St., Chicago.
4351. *Concrete Masonry Construction.* Catalog. 32 pp. Illus. Contains consideration of approved practices.
4352. *Concrete Floors.* Booklet. 16 pp. Illus. Gives data.
Sandusky Cement Co., Cleveland, O.
5182. *Concrete Work Made Easy.* Booklet. Deals with the solution to water-proofing problems in concrete construction.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4811. *Ivory Keene's Cement.* Bulletin KC1. Gives data.

CEMENT—High Temperature
Johns-Manville, Inc., 292 Madison Ave., New York.
3552. *Refractory Cements.* 16 pp. Illus. Presents facts and data.
3553. *Acrite Boiler Wall Coating.* Illus. Discusses fuel saving.

CEMENT—Magnesite
CEMENT PAINT—See Paint, Cement

CEMENT TOOLS
Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.
2011. *Abram Double Action Long-Handled Cement Finishing Tools.* 12 pp. Illus. Shows entire line.
2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.

CHIMNEY CAPS—See Ventilators, also Metals, etc.
CINDER BLOCKS—See Building Blocks
CHISELS—See Tools, Edge
CIRCULAR SAWS—See Saws

CLAMPS
Black Bros. Co., Inc., Mendota, Ill.
2472. *Black Veneer and Glue Room Equipment.* Catalog No. 11. 16 pp. Illus. Covers the line of clamps, presses.
2473. *Gluing Clamps.* 24 pp. Illus.
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
20511. *Brick Clamps.* Leaflet. Illus.
Taylor, James L., Mfg. Co., Poughkeepsie, N. Y.
4751. *Catalog.* Illus. 32 pp. Lists and describes their lines of clamps; with prices.
4752. *Clamp Questions.* Illus. Pamphlet. Deals with several types.
4753. *They Know.* Folder. Gives illustrations of two clamps.

CLOTH WALL COVERING—See Wall Covering

CLOTHES CLOSET FIXTURE
Garden City Plating & Mfg. Co., 1430 So. Talman Ave., Chicago.
3192. *Clothes Closet Plans.* Folder. Discusses convenience and capacity of closets built with *Garcy Garment Carriers.*
Knape & Vogt Mfg. Co., Grand Rapids, Mich.
3691. *Beautiful Clothes Closets.* Booklet. Illus.
3692. *Plans for Modern Clothes Closets.* Folder. Blue prints.

CLOTHES DRYERS
Victor Dryer Co., 1 Shirley St., Worcester, Mass.
5461. *Catalog.* Illus. Includes price list of dryers, brackets, etc.

CLUTCHES—See Hoists

COAL CHUTES
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2952. *Descriptive literature.* Illus.
Gabriel Steel Co., Bellevue Ave., Detroit, Mich.
3171. *Gabriel Chutes.* Descriptive literature.
Majestic Co., Huntington, Ind.
3901. *Six Reasons Why.* Folder. 4 pp. Illus. Explains details of Majestic coal window.
Sykes Metal Lath Co., Niles, O.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.

COLLEGES AND SCHOOLS—See Schools
COLORS, CEMENT, MORTAR, STUCCO—See Mortar Colors

COLUMN BASES
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General catalog. 46 pp. Illus. Covers complete line of Cheney products.

COLUMN AND BEAM COVERING
United States Gypsum Co., 205 W. Monroe St., Chicago.
4812. *Bulletin PT4.* Gives relevant data.

COLUMNS, IRON AND STEEL
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2958. *Stanchions for Basement.* Leaflet. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp.

COLUMNS, WOOD
Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24. pp.
Pacific Lumber Co. of Illinois, 2060 McCormick Bldg., Chicago.
4241. *Construction Digest.* Illus. Contains data and description.

COMBINATION DOOR—See Doors
COMBINATION WOODWORKERS—See Woodworking Machinery

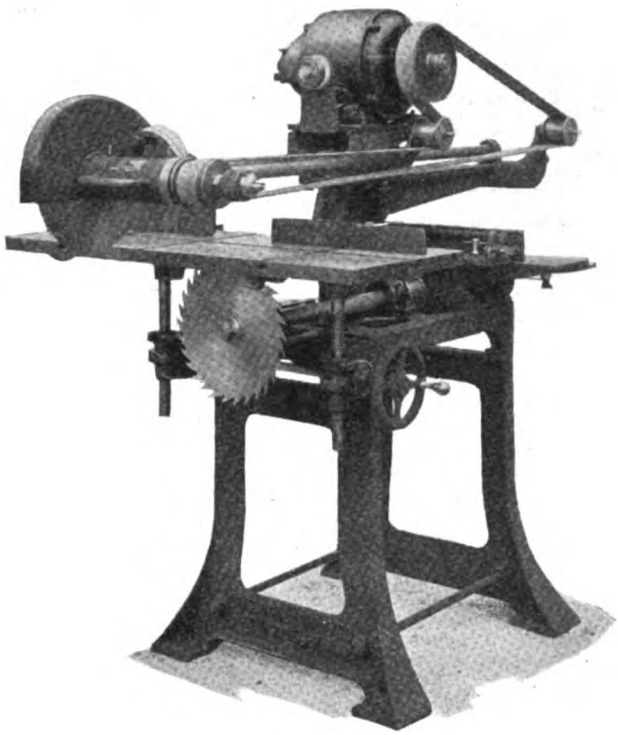
CONCRETE ACCESSORIES
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2957. *Concrete Inserts.* Descriptive literature. Illus.
Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4201. *Northwestern.* General catalog. 16 pp. Northwestern products, including *Kno-Burn* metal lath, *Longspan Plasta-Saver, Nemco* channels, corner bead and metal waste baskets.
4205. *Designing Data.* Catalog. 94 pp. Covers complete line of *Econo* expanded metal for reinforced concrete.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletin FT3.* Deals with *Floor Voids* for use in concrete.
Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder System.* Catalog. Illus. Takes method of building double monolithic concrete walls without forms.
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section dealing with their electrically welded wire fabric for concrete reinforcement.

CONCRETE BLOCKS—See Building Blocks
CONCRETE BLOCK MACHINE—See Concrete Machinery

CONCRETE MACHINERY
Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2051. *Why Stay a Little Fellow?* Folder. 4 pp. Illus. Describes the *Magic Concrete Mixer.*
2052. *The Concrete Road to Success.* 22 pp. Illus. *Magic Mixer.*
Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.
2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.
American Cement Machine Co., Keokuk, Iowa.
2101. *Boss Hoists.* Bulletin No. 117. 6 pp. Illus.
2102. *Boss Tilter Mixer.* 12 pp. Illus. Specifications.
2103. *Boss Big One Bagger.* Bulletin No. 5. Illus.
2104. *Boss Heavy Duty Type Mixer.* No. B24. 30 pp. Illus.
2105. *Boss Combination Paving and Building Mixer.* No. P9.
Anchor Concrete Mchy. Co., Adrian, Mich.
2231. *Anchor Line of Concrete Machinery.* 36 pp. Illus.
2232. *Hobbs Concrete Block Machine.* 16 pp. Illus.
2233. *Handbook* on concrete products machinery. 66 pp. Illus.
C. H. & E. Mfg. Co., Clinton & Mineral Sts., Milwaukee, Wis.
2584. *Mortar Mixers.* Bulletin. Illus.
Chain Belt Co., Milwaukee, Wis.
2681. *Rex Mixers.* Catalog No. 117. 26 pp. Illus. Deals with mixers and mixer equipment.
2682. *Rex Powers.* Catalog No. 118. 42 pp. Illus. Contains descriptions, details, and specifications of various types.
Concrete Equipment Co., Holland, Mich.
2781. *Utility Concrete Equipment.* Catalog. 28 pp. Illus. Shows various types and size of *Utility* concrete block machines.
2782. *Utility High Speed Ramming Machine.* 6 pp. Illus.

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20th CENTURY WOODWORKER



The Overhead Saw with a 17 inch Crosscut

No Motor to pull

Cuts Wood and Costs

Write for illustrated circular

CRESSON-MORRIS COMPANY 18TH & ALLEGHENY AVE., PHILADELPHIA, PA.

U. S. and Foreign Patents Pending. Licensed under U. S. Patent No. 1462631, Feb. 5, 1924

THEY'RE ALMOST HUMAN

This machine isn't human—but it does something no man can do. The Foley Automatic Saw Filer sharpens an ordinary saw in 5 minutes, and the teeth will not vary 1/1000th of an inch.

Why waste 25 to 35 minutes on a saw when this Filer will do the work for very little money? The Foley Filer saves time, eyes, saws and money. Even cuts new teeth—any point you want. It's the handiest and most profitable invention the building field has ever known.



Model F-3
Hand Drive

Handles Most Saws

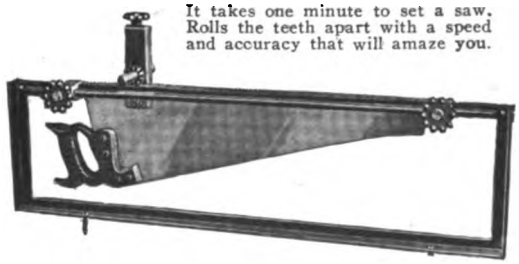
Hand, band, back, meat or circular saws are all alike to the Foley Filer. Anyone with three saws to care for can pay for a Foley in a very short time. It Pays for itself.

Anyone Can Operate

No experience necessary. Simply adjust quadrant, start file on the first tooth, then turn the crank or let the motor do it—a perfect cutting edge is the result.

Foley One-Minute Saw Set

It takes one minute to set a saw. Rolls the teeth apart with a speed and accuracy that will amaze you.



Send for Free Folder

There's a Foley Saw Filer that's just right for the kind of saws and the amount of work you have to do. Range in price to fit your pocketbook. Write for free folder on all Foley Saw Tools and reprints of dozens of testimonial letters.

FOLEY SAW TOOL COMPANY,

916 E. Lake St. Minneapolis, Minn.

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Selected List of Manufacturers' Literature

(Continued from page 162)

Construction Machinery Co., Waterloo, Iowa.
2801. *The Wonder Catalog.* Covers line of *Wonder* Equipment.
Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.
Ideal Concrete Machinery Co., 5000 Spring Grove Ave., Cincinnati, O.
3471. *Ideal Concrete Machinery.* Catalog No. 35. 80 pp. Illus. Describes complete line of concrete block, and brick making machines, mixers, hollow tile machines and ornamental molds.
3472. *Ideal Cincinnatus Batch Mixers.* Booklet. 26 pp. Illus.
Jaeger Machine Co., Columbus, O.
3531. *Jaeger Mixers.* Catalog. 36 pp. Illus.
Koehring Co., 31st & Concordia Sts., Milwaukee, Wisc.
3713. *Dandie Mixer.* Circular. Discusses *Dandie* light mixers.
3714. *Concrete—Its Manufacture and Use.* Book. 208 pp.
Kwik-Mix Concrete Mixer Co., Port Washington, Wis.
3751. *Kwik-Mix Concrete Mixers.* Series of bulletins. Illus. Describes types No. 3, 3½, 4-L, 7-L.
Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus. Lists such equipment as mixers, scrapers, barrows, hoists, etc.
Miles Mfg. Co., Jackson, Mich.
3991. *General Catalog.* Illus. Presents complete *Miles* line of block and brick machines, power lampers, mixers and moulds.
Ransome Concrete Machinery Co., Dunellen, N. J.
4381. *7-S Building Mixer.* Bulletin 110A. Illus.
4382. *Standard Building Mixers.* Bulletin 112. Illus.
4383. *4-S and 7-S Bantam Mixers.* Bulletin 114. Illus.
4384. *3½-S Tilting Mixer.* Bulletin 116.
4385. *21-E Paving Mixer.* Bulletin 113. Illus.
4386. *Chuting Equipment.* Bulletin 202. Illus.
4387. *Monkey-on-a-Stick.* Bulletin 115. Illus.
Remmel Mfg. Co., Dept. H., Kewaskum, Wis.
4391. *Remmel Catalog*, 1925. Illus. Takes up complete line *Remmel Tilting Type* mixers.
4392. *Remmel Mixers.* 2 Folders. Contains description and data.
Sheldon Mfg. Co., Inc., Box 25, Nehawka, Neb.
4561. *The "Know How" of Concreting.* Illus. Booklet. 127 pp. Contains information on various phases of concrete work.
4562. *A Series of Leaflets,* Folders, etc. Illus.
Smith Co., T. L., Milwaukee, Wisc.
4591. *Smith Simplex Mixer.* Bulletin No. 409-A. 20 pp. Illus.
4592. *Smith Non-Tilting Mixer.* Bulletin No. 405-A. 48 pp. Illus.
4594. *Smith Concrete Mixers and Pavers.* Catalog. Illus. 64 pp.
Stewart Mfg. Co., 124 Rath St., Waterloo, Ia.
4681. *Catalog 25.* Illus. Contains full description of their mixers.
Universal Cement Mold Co., No. Milwaukee, Wis.
5471. *Build the Hollow Wall Way.* Literature.
Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder Machines.* Booklet. Illus. Takes up method of building double monolithic concrete wall without forms.

CONCRETE PROCESSES
General Fireproofing Co., Youngstown, O.
3224. *Crystalrox.* Folder. 4 pp. Illus. Pertains to hardening and dust-proofing of cement floors.
3225. *Metallic Floor Hardener.* Folder. GF. 140. 4 pp. Illus.
Morene Products Co., Inc., 241 W. 28th St., New York.
5371. *Morene, the Wall Finish Distinctive; a Portland Cement Product—Atlas White.* Brochure. Illustrated. Shows examples of *Morene* used for ceiling, wall and mural decorations.
5372. *Folder.* Describes *Morene* and its use as decorative medium.
Solvay Process Co., 40 Rector St., New York.
4601. *For Concrete Summer and Winter.* Illus. Catalog. 16 pp. Describes uses of their calcium chloride for concrete.
4602. *Solvay Calcium Chloride for Concrete Construction.* Illus.
Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder System.* Catalog. Illus. Describes building double monolithic concrete walls using Van Guilder machines.

CONCRETE REINFORCING—See Concrete Accessories

CONCRETE SURFACER
Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.
2791. *Berg Surfacer and Finisher.* 8 pp. Illus. Deals with concrete surfacing apparatus.

CONDUCTOR PIPE—See Pipe, Conductor
CONSTRUCTION, FIREPROOF—See Building Construction
COPPER—See Leaders, Flashings and Gutters
CORNER BEAD—See Metals, also Building Construction
CORRESPONDENCE COURSES—See Schools
CORRUGATED ASBESTOS—See Asbestos Products

CRANES
Koehring Co., 31st & Concordia Sts., Milwaukee, Wisc.
3712. *Koehring Booklet.* Lists complete line of products.

CRAYONS, LUMBER
Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line of Aloe levels, transits, and drafting material.

DADO HEADS—See Woodworking Machinery

DAMPERS AND ASH DUMPS (FIREPLACE)
Gabriel Steel Co., Bellevue Ave., Detroit, Mich.
3175. *Dome Dampers and Ash Dumps.* Descriptive literature.
Hornet Mantel Co., 1147-A Market St., St. Louis, Mo.
3442. *Homet Dampers.* Descriptive literature. Illus.
Sykes Metal Lath Co., Niles, O.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.

DAMPPROOFING—See Waterproofing, also Stucco, etc.
DECK CLOTH—See Roofing Materials

DERRICKS
Sasgen Derrick Co., 3010 W. Grand Ave., Chicago, Ill.
4531. *Circular No. 2.* Illus. Comprises descriptions of complete line of Sasgen derricks. Includes prices.

DIFFUSING GLASS—See Glass, Ornamental
DIRECT MAIL ADVERTISING—See Mailing Lists

DOOR CHECKS—See Hardware, Window and Door

DOORS, METAL
Bayley Co., Wm., Springfield, O.
2381. *Bayley-Springfield Steel Doors.* Bulletin D21. 4 pp. Illus.
Lupton's Sons Co., David, Philadelphia, Pa.
3849. *Lupton's Steel Doors.* Describes several types.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4424. *Monarch Mill-Type Doors.* Illus. Catalog. 8 pp.
Truscon Steel Co., Youngstown, O.
4795. *Truscon Steel Sash.*. Illus. 80 pp. Handbook.
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog. Contains designing data, tables and views of stock sash installations.

DOORS—Wood
Chicago & Riverdale Lumber Co., Riverdale, Chicago.
5421. *Catalogs.* Illustrated. Cover entire line of doors, sash, etc.
Combination Door Co., Fond-du-lac., Wisc.
2751. *Easy-Change Combination Doors.* Catalog H. Illus. Deals with description of combination storm and screen door.
Long-Bell Lumber Co., R. A. Long Bldg., Kansas City, Mo.
3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.
Morgan Sash & Door Co., Chicago, Ill.
4041. *Building with Assurance.* Catalog. 440 pp. Illus. Shows bungalows and houses (in color) with floor plans. Includes information on interior decorating, etc. Price $2.50, refunded under special conditions.
Paine Lumber Co., Ltd., Oshkosh, Wisc.
4251. *Miracle Doors. Booklet.* 16 pp. Illus. Presents details concerning *Paine* doors in paint and natural finish.
4252. *Paine Miracle Doors.* Catalog. 56 pp. Illus. in color.
Stearns, A. T., Lumber Co., 87 Taylor St., Neponset, Boston, Mass.
4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawings of mantels, columns, doors, sash, windows, blinds.
Wheeler, Osgood Co., Tacoma, Wash.
5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of these doors.
5022. *Laminex Doors.* Catalog 31. Includes 20 designs in vertical and flat grain veneers. Size and details.
5024. *Laminex Book.* For architects and the building trade.

DOORS, SIDEWALK—See also Vault Lights
American 3-Way-Luxfer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2206. *3 Way-Luxfer Sidewalk Doors.* Bulletin D23. 4 pp. Illus. Describes 5 types, also includes *3-Way* Automatic door guard.

DOOR FRAMES—See Frames, Door and Window

DOOR AND WINDOW TRIM
Milwaukee Corrugating Co., Milwaukee, Wisc.
4003. *Milcor* Expansion Door and Window *Trim.* 8 pp. Illus.

DOOR BEDS—See Built-In Features

DRAFTING AND SURVEYING MATERIALS
Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line of Aloe levels, transits and drafting material.
Beckman Co., L., 1002 Jackson Ave., Toledo, O.
2421. *Survey Instruments.* Catalog No. 8. 82 pp. Illus. Covers complete line of *Beckman* levels and transits. With prices.
Geier & Bluhm, Inc., Troy, N. Y.
3201. *Standard Precision Convertible Level.* Circular C. 6 pp.
3202. *Junior Convertible Level.* Circular E. 6 pp. Illus.
Kolesch & Co., 138 Fulton St., New York.
3721. *Catalogue of Kolesch.* Book. 836 pp. Illus. Shows complete line of surveying and drafting instruments
Makepeace, Inc., B. L., 387 Washington St., Boston, Mass.
3921. *Loxo Compound Level.* Booklet. 16 pp. Illus.
Master Rule Mfg. Co., Inc., 815 E. 136th St., New York.
3951. *Interior Master Slide Rule.* Folder. 4 pp. Illus.
New York Blue Print Paper Co., 102 Reade St., New York.
4161. *General Catalog.* Illus. Includes complete line.
Peerless Blue Print Co., 341 5th Ave., New York.
4271. *Peerless Catalog.* Illus. Comprises descriptions of surveyors', builders' and draftmen's equipment.
Stevens, E. A., Newton Falls, O.
4661. *Circular.* Describes line, and line and surface levels prices.
Warren-Knight Co., 136 N. 12th St., Philadelphia, Pa.
4921. *Sterling Tracing & Detail Papers.* Samples.
4922. *Sterling Levels and Transits.* Catalog. 32 pp. Illus. Contains specifications and structural details of instruments.
4923. *Pocket Note Book.* Illus. Gives instructions for use.
White Co., David, 907 Chestnut St., Milwaukee, Wisc.
5051. Catalog A. *White's Improved Instruments.* Illus. 36 pp.

DRAWING MATERIALS—See Drafting Materials
DRAW PULLS—See Hardware

DUMBWAITERS—(See also Elevators)
Highwood Dumbwaiter Co., Closter, N. J.
5781. Catalog No. 5. Illus. Deals with "Sylvan," "Highwood," "Herculean," etc., types.
5782. *Leaflet.* Illus. Description and specifications.
Sedgwick Machine Works, 156 West 15th St., New York.
4551. *Catalog O.* Illustrated. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiters, brass tube dumb waiters, etc.

ELECTRICAL EQUIPMENT
Erie Fixture Supply Co., Erie, Pa.
5351. *Catalog No. 26.* Describes their line of completely wired lighting fixtures.
General Electric Co., Bridgeport, Conn.
3211. *Electrical Contractors' Catalog.* Illus.
3212. *Wires and Cables.* Catalog. 85 pp. Illus. 4 bulletins.
3213. *Electric Fans.* Folder. 6 pp. Illus. Gives details.
3214. *Reliable Wiring Devices.* Pocket Catalog. 206 pp. Illus. Gives prices and data for switches, rosettes, etc.
Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn.
3311. *H & H Line of Electrical Wiring Devices.* Catalog R. 152 pp. Illus. Presents line of *H & H* wiring equipment.
3312. *Architect's Handbook.* 18 pp. Illus. Contains specifications of *H & H* equipped buildings.
3313. *Tumbler Switch.* Folder. 4 pp. Illus. Describes action of H & H type tumbler switch.

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An All-Winter Business For You—Laying Everlasbestos

This is a business that keeps coming all winter long and all-the-year-'round.

Put down in new buildings or laid over old floors, Everlasbestos gives the same thorough satisfaction. And because its appearance, wearing qualities and prices please your customers, their word-of-mouth advertising brings you more jobs and more profit all the time.

Everlasbestos buyers are all around you: Stores—offices—churches—hospitals—schools—theatres—public buildings—apartments and homes for their kitchens, bath rooms and enclosed sun porches—factories for their wash rooms, restaurants and offices.

Smooth, seamless, easily cleaned, sanitary, handsome and practically everlasting—the result of its superior ingredients and perfected formula. Three attractive colors—red, buff and gray—that blend harmoniously with any color scheme. And we furnish a complete and easily understood Manual of Instructions.

Make more money this winter. Write now for Everlasbestos catalog, free sample and interesting proposition. Everlasbestos Flooring Co., Dept. D, 95 North St., Rochester, N. Y.

Everlasbestos Flooring



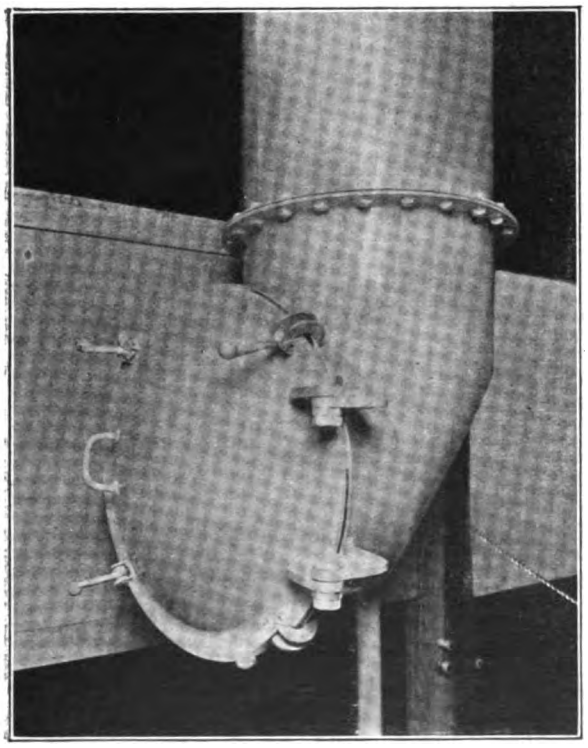
Everlasbestos Floor in Firehouse



Everlasbestos Floor in Drug Store



Everlasbestos Floor in Factory Lunch Room



Bottom of Chute showing door (closed). This is secured by patented clamps. Chute has drain-opening to allow for flushing.

Do Operating Expenses Go Up Every Time the Laundry Goes Down?

IF SO, YOUR CLIENT NEEDS A PFAUDLER CHUTE

In the hotel, hospital and even in the residence, it is an easy matter to overlook some simple mechanical operation which runs up expenses through our very neglect of it. This is particularly true of the problem of handling laundry.

Very few hospitals or hotels realize what it costs to operate under the old system of cart or truck. Those that do, have installed the Pfaudler Chute and cashed in on the economies which go with an up-to-date system of laundry disposal. *Be sure to specify—*

Pfaudler

The Pfaudler Glass Lined Laundry Chute

MAIL THIS COUPON

THE PFAUDLER CO.,
217 Cutler Building,
Rochester, N. Y.

Gentlemen: You may send me your booklet describing the Pfaudler Glass Lined Laundry Chute. No obligation.

Name .....

Street .....

City .....

B. A. & N. B. 10-25

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Selected List of Manufacturers' Literature

(Continued from page 164)

Johns-Manville, Inc., 292 Madison Ave., New York.
3555. *Friction Tapes & Rubber Splicing Compounds.* Folder. 4 pp.
3556. *Fibre Conduits.* Booklet. 12 pp. Illus.
3557. *Electrobestos.* Booklet. 16 pp. Illus.
Western Electric Co., New York.
5001. *Inter-Phones Systems.* Descriptive literature.
5002. *Western Electric Lighting Manual.* Gives data.

ELEVATORS
American Saw Mill Mchy. Co., 61 Main St., Hackettstown, N. J.
2172. *General Catalog. No.* 22. Contains description of hoists and general line of woodworking machinery.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Kimball Bros. Co., Council Bluffs, Ia.
3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.
Otis Elevator Co., 11th Ave. and 26th St., New York.
5451. *Catalogs.* Concern passenger and freight elevators.
Sedgwick Machine Works, 156 West 15th St., New York.
4551. *Catalog O.* Illus. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiter, brass tube dumb waiters, etc.

ELEVATOR DOOR EQUIPMENT
McCabe Hanger Mfg. Co., 425-27 W. 25th St., New York.
3851. *Elevator Door Hangers.* Booklet 23-B. 8 pp. Illus. Shows details of *McCabe* elevator door hangers.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4423. *Ideal Elevator Door Equipment and Checking Devices.* Illus. Catalog, A-21. Lists, with prices, elevator door hangers, closers, latches, etc., for various types of doors.

ENGINES
Hercules Corporation, Evansville, Ind.
3361. *Hercules Engines.* Bulletin No. 18. 24 pp. Illus. Presents complete line of Hercules engines. Contains specifications.

FIBRE BOARD LUMBER—See Wallboard

FIREPLACE FURNISHINGS
Brecher Co., 445 W. Jefferson St., Louisville, Ky.
5241. *Brecher Mantels.* Descriptive literature.
Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus. Covers line.
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2951. *Book of Fireplace.* 24 pp. Illus.
Hornet Mantle Co., 1147-A Market St., St. Louis, Mo.
3443. *Hornet Fireplace Furnishings.* Literature. Illus.
3444. *Hornet Wood and Tile Mantels.* Literature. Illus.
Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.
4171. *General Catalog.* No. 10. Illus. Presents complete line.

FIREPROOF CONSTRUCTION—See Building Construction

FLAG POLES
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Pole & Tube Works, Inc., Newark, N. J.
4331. *Flag Poles and Radio Masts.* Provide designs for installations.

FLOOR HARDENERS—See Concrete Processes

FLOOR MAINTENANCE
General Fireproofing Co., Youngstown, O.
3226. *Wood Floor Preservative.* Folder GF160. 12 pp. Illus.
Johnson & Son, S. C., Dept. BA4, Racine, Wisc.
3561. *Proper Treatment for Floors, Woodwork, and Furniture.* 32 pp. Illus. Treats on hard and soft wood finish.
3562. *Portfolio of Wood Panels.* 14 pp. Illus. Contains actual panels of finished woods. Includes finishing data.

FLOORING
Armstrong Cork Co., Linoleum Division, Lancaster, Pa.
2271. *Business Floors.* 48 pp. Illus. Data and directions on laying in public and semi-public buildings.
2272. *Armstrong's Linoleum Floors.* Handbook. Illus.
Bruce Co., E. L., Memphis, Tenn.
5701. *Catalog.* 24 pp. Illus. Deals with convenience and wearing qualities of Bruce Oak flooring.
California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of "Information Sheets" on California White Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.
Certain-teed Products Corp., 100 E. 42nd St., New York.
2671. *Linoleum, Floortex, Roll Goods and Rugs.* Descriptive literature, samples and prices.
Long-Bell Lumber Co., R. A. Long Bldg., Kansas City.
3811. *The Perfect Floor.* 16 pp. Illus. Discusses methods of laying, finishing and caring for oak flooring.
Norton Co., Worcester, Mass.
4211. *Norton Floors.* Booklet. 24 pp. Describes the several types of *Alundum* floors with reference to their applications.
4212. *Norton Floors.* Monthly House Organ. 4 pp. Illus.
4213. *Alundum Safety Tile.* Booklet. 38 pp.
Oak Flooring Bureau, 1014 Ashland Block, Chicago.
5161. *The Story of Oak Floors.* 24 pp. Illus. Discusses oak for floors and different types of product.
5162. *How and Where to Use Oak Floors.* 16 pp. Illus.
5163. *For School Buildings.* Folder. 6 pp. Illus.
5164. *For Beauty, Economy and Durability.* Folder. 6 pp. Illus.
Pacific Lumber Co. of Illinois, 2060 McCormick Bldg., Chicago.
4241. *Construction Digest.* Illus. Contains data and description.
Ritter Lumber Co., W. M., Columbus, O.
4451. *Ritter Oak Flooring.* Illus. Catalog. 36 pp.
Wood-Mosaic Co., Inc., New Albany, Ind.
5121. *Wood-Mosaic Flooring.* Catalog of wood-carpet, strips, parquetry, tongue and groove flooring in natural wood colors.
5122. *Wood-Mosaic Floors.* Catalog. Illus. 32 pp.
Wright Rubber Products Co., Racine, Wisc.
5142. *Folder.* Illustrates their rubber tile. Shows installations.

FLOORING, COMPOSITION
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2464. *Bishopric Composition Flooring.* Description.
Everlasbestos Flooring Co., Rochester, N. Y.
3041. *The Modern Floor.* Booklet. 16 pp. Illus.
Muller, Franklyn, R., Inc., Waukegan, Ill.
4051. *Asbestone Fireproof Flooring.* 16 pp. Illus. Shows details
4052. *Instruction for preparing and laying Asbestone.* 8 pp. Illus.
Rocbond Co., Van Wert, O.
4463. *Rocbond Flooring.* Illus. Booklet. Describes properties and application for public buildings, stores, houses, etc.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletins FT 3, SP2.*

FLOORING—Industrial
Johns-Manville, Inc., 292 Madison Ave., New York.
3558. *Flooring That's Made to Fit.* Booklet. 16 pp. Illus.

FLOOR SANDERS—See Floor Surfacing Machinery

FLOOR SURFACING MACHINERY
American Floor Surfacing Machine Co., So. St. Claire St., Toledo, O.
2121. *American Universal.* Booklet. 8 pp. Illus.
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2341. *Electric Portable Sander.* Bulletin BE. Illus.
Campbell Machine Co., Inc., 39 Hayward, Wollaston, Mass.
2621. *Catalog.* Illus. 16 pp. Discusses different uses of floor surfacing machine.
Chappell & Co., Waywell, 137 No. Jackson St., Waukegan, Ill.
2691. *Little-Automatic Electric Surfacing Machine.* Folder. 4 pp. Ballbearing Electric Floor Surfacing Machine.
Electric Rotary Machine Co., 3825 W. Lake St., Chicago.
3001. *The Electric Rotary Machine.* Catalog. 28 pp. Illus. Covers entire line of floor surfacing, refinishing machinery.
Fox Supply Co., Brooklyn, Wisc.
3161. *Fox Floor Scraper No.* 1. Leaflet. Illus. Includes price.
Lincoln-Schlueter Machinery Co., 225 W. Illinois St., Chicago.
3791. *Improved Schlueter Non-Lever Floor Surfacer.* Leaflet.
3792. *Illustrated Letter.* 4 pp. Presents description and data.
3793. *The Marvel.* Folder. 2 pp. Illus. Describes two disc type.
3794. *3 Men and a Lincoln.* Folder. 4 pp. Illus.
Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.
3962. *Master Floor Sander.* Descriptive literature.
National Sanding Machine Co., 543-45 Vedder St., Chicago.
4111. *Super Floor Surfacing Machine.* Catalog. 16 pp. Illus. Explains 5-day trial and 5-year guarantee policy
4112. *The Lightning Electric Floor Surfacer.* Circular. 4 pp.
Triple "A" Machine Co., 4605 Ravenswood Ave., Chicago, Ill.
4771. *Booklet.* Illus. Describes their combination scraper.

FLOOR VOIDS FOR CONCRETING—See Concrete Accessories

FOUNTAINS, ELECTRICAL
Fink Co., John, 104 Lexington Ave., New York.
5481. *The Fountain Beautiful.* Illus. Leaflets. Cover the decorative characteristics of Fink electrical, portable fountains.

FRAMES, DOOR AND WINDOW—See Doors, also Windows

FROST PREVENTATIVE—See Concrete Processes

FURNACES—See Heating Equipment

GARBAGE DESTROYERS
Buffalo Co-operative Stove Co., Buffalo, N. Y.
5821. *Literature.* Description and specifications.
Kerner Incinerator Co., 1027 Chestnut St., Milwaukee, Wis.
3641. *The Sanitary Elimination of Household Waste.* Folder M-30.

GARBAGE RECEIVERS
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2953. *Descriptive Literature.* Illus.

GAS PRODUCERS
American Heating & Lighting Co., Morenci, Mich.
2131. *Gas for Country and Suburban Homes.* 166 pp. Illus.
Detroit Suburban Gas Plant Co., Detroit, Mich.
5831. *Literature.* For suburban homes.

GLASS
American Window Glass Co., Pittsburgh, Pa.
2211. *Complete Window Glass Specifications.* Folder. 4 pp. Illus.
Bayley Co., Wm., Springfield, O.
2388. *Bayley-Springfield Wire Glass Windows.* Bulletin. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Lupton's Sons Co., David, Philadelphia, Pa.
38411. *Lupton Glass.* Deals with glass for doors and windows.
Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* 36 pp. Illus. Takes up complete line.
4012. *Factrolite.* Leaflet. Deals with the use of this type of glass.

GLASS, ORNAMENTAL
American 3-Way-Luxfer Prism Co., 13 St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2201. *Lux Lens Pressed Tile.* 4 pp. Illus. Describes *Lux Lens* and *Spero Lens* for store fronts and transom lights.
2202. *3 Way-Luxfer Prisms.* 4 pp. Illus. Describes 3-Way Prismatic Glass for store fronts, transoms and upper sash.
Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* 36 pp. Illus. Takes up complete line wire glass and ornamental sheet glass. Includes tests.
4012. *Factrolite.* Leaflet. Deals with the use of this type of glass.

GLAZING COMPOUND—See Caulking

GLUE POTS
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2347. *Descriptive Literature.* Illus.
Black Bros. Co., Inc., Mendota, Ill.
2471. *Bulletin* 11-G. 2 pp. Illus. Describes electric glue pot.
Wallace & Co., J. D., 134-153 S. California Ave., Chicago.
4892. *Wallace Machines for Working Wood.* Illus. Catalog.

GRILLES—See also Registers
Garden City Plating & Mfg. Co., 1430 So. Talman Ave., Chicago.
3193. *Circular.* Shows standard designs in grilles and wickets of brass, bronze and steel.
Hart & Cooley Co., Inc., New Britain, Conn.
3301. *Grilles.* Catalog. Illus. Contains complete information.
Meyers Mfg. Co., Fred J., Hamilton, O.
3981. *General Catalog.* 110 pp. Illus. Covers entire line.
3982. *Folder.* 4 pp. Illus. Describes new type of grille.
Tuttle & Bailey Mfg. Co., 2 W. 45th St., New York.
4801. *Catalog—No.* 78, *and Special Booklet on Grilles.* Includes *Ferrocraft Grilles* in plain lattice and 500 special designs;
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section devoted to their perforated metal grilles. Designs in black and white.

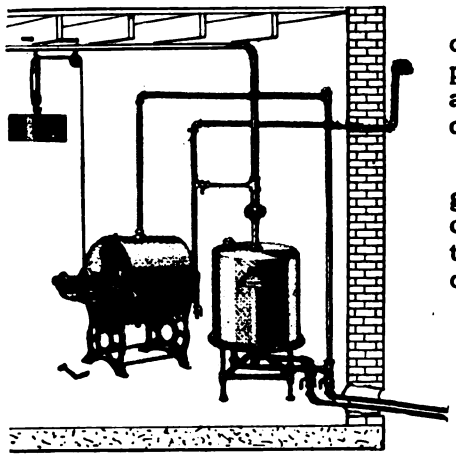
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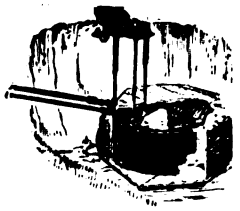
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Selected List of Manufacturers' Literature

(Continued from page 166)

GRINDING MACHINERY

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus.

Huther Bros. Saw & Mfg. Co., Rochester, N. Y.
3461. *Huther Grinding Attachment.* Leaflet. 2 pp. Illus.

GUARDS, WINDOW—See Grilles, also Ornamental Iron

GUTTERS—See Leaders, etc.

GYPSUM

United States Gypsum Co., 205 W. Monroe St., Chicago.
4814. *General Catalog RB1.*

HAMMERS—See Tools

HANGERS, DOOR—See Hardware

HARDWARE

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus.

Ives Co., H. B., New Haven, Conn.
3521. *Builders' Hardware.* Folder. Illus. Describes *Ives* line.

Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog. No. 57.* 414 pp. Illus. Presents complete line of *Myers pumps*, door hangers, store ladders, etc.

National Brass Co., Grand Rapids, Mich.
4081. *General Catalog.* 1925 edition. Illus. Covers complete *National* line of brass hardware.

National Mfg. Co., Sterling, Ill.
4091. *National Garage Hardware.* Catalog. 32 pp. Illus. Includes working drawings of garages.
4092. *Builders' Hardware.* Catalog No. 19. 120 pp. Illus.
4093. *Ornamental Ideas.* 24 pp. Illus. Deals with hinge and butt.

Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.
4171. *General Catalog.* No. 10. Illus. Presents complete line.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4424. *Woodworking Vises & Manual Training Benches.* Illus.
4429. *Booklet.* Ill. Describse big door hardware for round houses.

Sargent & Co., New Haven, Conn.
4521. *Details to Which Standard Hardware Can Be Applied.* Booklet. 6 pp. Illustrated. Treats on construction details.
4522. *Sargent Door Checks.* Folder. Illustrated.

HARDWARE, WINDOW AND DOOR

Barnes Lock & Sash Holder Co., 1820 Tribune Tower, Chicago.
5651. *Barnes Sash Holder.* Leaflet. Illus. Describes substitute for weights and cords. Includes details and instructions.

Caldwell Mfg. Co., 5 Jones St., Rochester, N. Y.
2601. *Suggestions for the Present Day Architect.* Booklet. 16 pp. Illus. Gives data for *Caldwell* sash balances.

Casement Hardware Co., 250 Pelouse Bldg., Chicago.
2651. *Catalog.* Illus. Describes *Casement Window Specialties.*

Griffin Mfg. Co., Erie, Pa.
3271. *Hinges.* Book. 72 pp. Illus. Covers complete line.
3272. *Cellar Window Sets.* Folder. 4 pp. Illus.
3273. *Garage Hardware.* Folder. 4 pp. Illus.
3274. *Butt Hinges.* Folder. 6 pp. Illus.

Ives Co., H. B., New Haven, Conn.
3522. *Builders' Hardware.* Catalog No. 15. 148 pp. Illus. Covers complete line of *Ives* window and door hardware specialties.

McCabe Hanger Mfg Co., 425-427 W. 25th St., New York.
3852. *General Catalog.* No. 24-B. 60 pp. Illus. Covers house door, garage, folding partitions, and elevator door hangers.

National Mfg. Co., Sterling, Ill.
4091. *National Garage Hardware.* Catalog. 32 pp. Illus. Includes working drawings of garages.
4092. *Builders' Hardware.* Catalog No. 19. 120 pp. Illus.
4093. *Ornamental Ideas.* 24 pp. Illus. Deals with hinge and butt.

Pullman Mfg. Co., Rochester, N. Y.
4371. *15 Minutes Completes the Job.* Folder. 6 pp. Illus. Discusses *Pullman* spring sash balance.
4372. *Catalog No. 38.* Illus. Takes up all types of *Pullman* spring sash balance.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4421. *Distinctive Garage Door Hardware.* Illustrated Catalog.
4422. *Modern Hardware for Your Home.* Illus. 24 pp.
4428. *Catalog No. 40.* Lists sliding and folding partition door hardware.
4429. *Booklet.* Ill. Describes big door hardware for round houses and freight houses.

Sargent & Co., New Haven, Conn.
4521. *Details to Which Standard Hardware Can Be Applied.* Booklet. 6 pp. Illus. Treats on construction details.
4522. *Sargent Door Checks.* Folder. Illustrated.

Star Expansion Bolt Co., 147 Cedar St., New York.
5331. *Literature.* Describes *Drywins*, their expansion shield.

Weisse Mfg. Co., La Crosse, Wisc.
4991. *Literature.* Describes combination glass and screen enclosed porches and casement window hardware.

Whitney Co., Vincent, 444 Mass. Trust Bldg., Boston, Mass.
5071. *Whitco Casement Hardware.* Decriptive literature.

HEATING EQUIPMENT

American Heating & Lighting Co., Morenci, Mich.
2131. *Gas for Country and Suburban Homes.* 16 pp. Illus.

American Radiator Co., 40 W. 40th St., New York.
2161. *The Ideal Fitter.* 21st edition of hand-book. 346 pp. Illus.
2162. *Ideal Type of Heat Machines.* 48 pp. Illus. Details.
2164. *Corto.* 16 pp. Illus. Introduces new radiator.

Andrews Heating Co., 2001 Heating Bldg., Minneapolis, Minn.
2251. *Catalog.* Describes heating, plumbing equipment.

Babson Bros., Dept. A555, 19th St. and California Ave., Chicago.
5431. *Bulldog Pipeless Furnace.* Book. Illustrated.

Bovee Furnace Works, Waterloo, Iowa.
2491. *Warm Air Furnaces.* Broadside. Illus. Deals with *Bovee's* bungalow, horizontal radiator and electric fan blower types.

Buffalo Co-operative Stove Co., Buffalo, N. Y.

Burnham Boiler Corp., Irvington, N. Y.
2551. *Letters To and Fro.* Booklet. Treats of the heating question.

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Covers complete line.

Forest City Foundry & Mfg. Co., Cleveland, O.
3141. *Monarch and Niagara Warm Air Furnaces.* Catalog No. 23.

Hardin-Lavin Co., 121-31 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.

Hess Warming and Vent. Co., 1207 So. Western Ave., Chicago.
3382. *Modern Furnace Heating.* Catalog. 48 pp. Illus. Describes *Hess* warm air heating systems.

B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.

Milwaukee Corrugating Co., Milwaukee, Wis.
40011. *Furnace and Stove Pipe and Fittings.* Catalog No. 25.

Richardson & Boynton Co., 260 5th Ave., New York.
5223. *The Richardson Manual.* 419 pp. Illus. Gives data on "Richardson" Boiler for steam, hot water and vapor system, "Perfect" Warm-Air and Pipeless Furnaces, tank heaters.
5221. *Richardson Hot Water Heater.* Describes *Galvoxide Water Section* for use in connection with the *Richardson.*
5222. *Your Store.* This and another Booklet, for dealers.

Thatcher Co., 39 St. Francis St., Newark, N. J.
4762. *Catalog.* Contains information *Pipeless Furnace.*
4763. *Catalog.* Illus. Describes their *Tubular Furnace.*

Tuttle & Bailey Mfg. Co., 2 West 45th St., New York.
4802. *Tanbo Antique.* Sample of this Finish for Registers.

United States Radiator Corp., Detroit, Mich.
4831. *Capitol Boilers, Square Type.* Illus. Booklet. 25 pp.
4832. *Capitol Boilers, Winchester Type.* Illus. Booklet. 23 pp.

HEAT INSULATION—See Insulation

HINGES—See Hardware, Window and Door

HOISTS—See also Elevators

Brown Clutch Co., Sandusky, O.
2521. *Hoists.* Catalog. Illus. Covers all *Brown* types from hand winches to 6,000-pound capacity.

C. H. & E. Mfg. Co., Clinton & Mineral Sts., Milwaukee, Wis.
2583. *Descriptive Literature.* Bulletin. Illus.

Kimball Bros. Co., Council Bluffs, Ia.
3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.

Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus. Lists such equipment as hoists, mixers, scrapers, etc.

Sedgwick Machine Works, 156 West 15th St., New York.
4551. *Catalog O.* Illus. 52 pp. Lists and describes types of hand-power elevators, dumbwaiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumbwaiters, fuel lifts, counter dumbwaiter, brass tube dumbwaiters, etc.

HOUSE MOVING

LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3761. *Catalog.* 34 pp. Illus. Deals with house moving appliances.

INCINERATORS—See Garbage Destroyers

INJECTERS—See Water Systems

INSULATION

Armstrong Cork and Insulation Co., 197-24th St., Pittsburgh.
5531. *Armstrong Corkboard.* Bulletins. Illustrated. Material includes structural details and methods of laying over various types of construction.

Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints and Insulating Paper.*

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2463. *Bishopric for All Time and Clime.* Booklet. Illus. 44 pp. Describes their heavy weight insulating stucco and plaster base, stucco board, sheathing board, sound deadening stucco.

Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2591. *Cabot's Heat Insulating Quilt.* Literature. Illus.

Celotex Co., 11 W. Washington St., Chicago.
2661. *Your Home.* Catalog. Gives information about *Celotex* and deals with homes. Price 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.

Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

Flaxlinum Insulating Co., St. Paul, Minn.
3081. *Heat Insulation for Houses.* Treating heat insulation and its relation to residence construction.
3082. *For Comfort and Economy.* Booklet. 32 pp. Illus.
3083. *Standard Specifications.* File 19G. Illus. Contains specifications for heat insulating and sound deadening.

Johns-Manville, Inc., 292 Madison Ave., New York.
3559. *Insulating Materials.* 22 pp. Illustrated.

Ruberoid Co., 95 Madison Ave., New York.
4481. *Ru-ber-oid Facts Worth Knowing.* Illus. Booklet. 20 pp.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4815. *Gyp-Lap Sheathing Board.* Bulletins GL3, Misc. 1.

U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool In Architecture.* Booklet. Illus

IRONING BOARDS—See Built-In Features

JACKS, BUILDING

LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3762. *Jacks.* Descriptive literature.

JOISTS AND STUDS, PRESSED STEEL

General Fireproofing Co., Youngstown, O.
3227. *GF Steel Lumber.* Booklet. 12 pp. Illus. Deals with joists and studs for floor, roofs, and partitions.
3228. *GF Steel Joists.* Booklet. 18 pp. Illus.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Truscon Steel Co., Youngstown, O.
4798. *Truscon Steel Joists.* Catalog. Illus. 24 pp.

KITCHEN CABINETS—See Built-In Features

LADDER BRACKETS—See Brackets, Ladder

LATH, EXPANDED METAL AND WOOD—See Stucco Bases

LAUNDRY CHUTES

Pfaudler Co., 217 Cutler Bldg., Rochester, N. Y.
5801. *Glass Lined Laundry Chutes.* Booklet. Illus.

LEADERS, FLASHINGS AND GUTTERS

Milwaukee Corrugating Co., Milwaukee, Wisc.
4004. *Milcor Rain Carrying Equipment.* Folder. 8 pp. Illus.

New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illus. Contains information regarding downspouts and gutters of *Horse Head* zinc.

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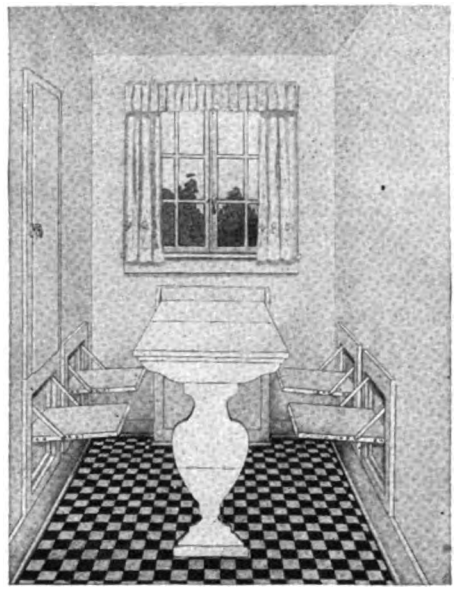
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Please send me information regarding the units checked:

( ) PULMANOOK, consisting of table and 4 seats folding into wall. For alcove ( ); for any kitchen corner ( ).
( ) COMBINATION 210-X, with refrigerator, consisting of cabinet, broom closet, dish closet, and linen cupboards to set against wall.
( ) IN-A-WALL IRONING BOARD, folding into wall when not in use.
( ) BROOM CLOSET, to set in any kitchen ( ); to be built into wall ( ).
( ) DISH CLOSETS, LINEN CUPBOARDS, to be set in ( ); to be built in ( ).
( ) IN-A-WALL TELEPHONE SEAT.
( ) KITCHEN MAID KITCHEN CABINET.
( ) DIVIDED CUPBOARDS, to be used to separate breakfast room from kitchen.
( ) REFRIGERATOR.

Name .....

Address .....

City ..... State .....

"Let the Kitchen Maid be your Kitchen Aid"

KITCHEN MAID
STANDARD UNIT SYSTEMS

See Telephone Directory in leading cities for branch offices and agents.

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Selected List of Manufacturers' Literature

(Continued from page 168)

Wheeling Corrugating Co., Wheeling, W. Va.
5031. *Hand Dipped Conductor Pipe.* Descriptive literature.
Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad. Literature.* Describes leadcoated sheets, roofing, shingles, spouting, gutter, etc.

LEVELS AND TRANSITS—See Drafting and Surveying

LIFTS—See Elevators, also Hoists

LIGHTING—See Electrical Equipment

LIGHTNING RODS
Must Lightning Rod Co., W. Milton, O.
5571. *Lightning Rods, Fixtures and Ornaments.* Catalog No. 4. Illustrated. Takes up line of copper and galvanized sectional rods.
Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Descriptive Catalog and Price List.* Shows different designs.

LIME
Kelley Island Lime and Transport Co., Cleveland, O.
3611. *Tiger Finish.* Catalog. Illus. Discusses use of *Tiger lime.*
United States Gypsum Co., 205 W. Monroe St., Chicago.
4816. *Bulletins HL1, HL2, HL3, HL4, Spec. 9.*
Woodville Lime Products Co., 622 Madison Ave., Toledo, O.
5131. *Leaflet.* Describes their brands of *Finishing Hydrated Lime.*
5133. *Quality from Stone to Finish.* Broadside

LINOLEUM—See Flooring

LOANS
Miller & Co., G. L., 30 E. 42nd St., New York.
5171. *Descriptive Literature* pertaining to the financing of building.

LUMBER AND WOODWORK
Birch Mfgs. Assn., 229 F. R. A. Bldg., Oshkosh, Wis.
2441. *Literature.* Tells of production and use of birch and kindred hardwoods. Gives information on woodwork finishing.
California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of Information Sheets California White and Sugar Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association
Chicago & Riverdale Lumber Co., Riverdale, Chicago.
5421. *Catalogs.* Illustrated Cover entire line of doors, sash, etc.
Hartmann-Sanders Co., Elston and Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. Price 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24 pp.
Jackson Lumber Co., Lockhart, Ala.
5771. *Builders Lumber.* Literature. Illus.
Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3812. *The Post Everlasting.* Booklet. 32 pp. Illus. Gives information on creosoted yellow pine fence posts, etc.
3813. *Poles That Resist Decay.* Booklet. 16 pp. Illus.
Morgan Sash & Door Co., Chicago, Ill.
4041. *Building With Assurance.* Catalog. 440 pp. Illus. Shows bungalows and houses (in color) with floor plans. Includes information on interior decorating, etc. Price, $2.50, refunded under special conditions.
Pacific Lumber Co. of Illinois, 2060 McCormick Bldg., Chicago.
4241. *Construction Digest.* Illus. Contains data and description.
Southern Cypress Mfg. Assn., New Orleans, La.
4611. *Descriptive literature.*
Stearns, A. T. Lumber Co., 87 Taylor St., Neponset, Boston.
4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawing of mantels, columns, doors, sash windows, blinds.
Weatherbest Stained Shingle Co., Inc., 145 Main St., North Tonawanda, N. Y.
4962. *Literature* deals with cost of *Weatherbest Stained Shingle* side walls. Includes samples showing Weatherbest color.
4963. *Book.* Newly published book, devoted to remodeling.
Western Pine Mfrs. Assn., 510-517 Yeon Bldg., Portland, Ore.
5011. *The Pondosa Story.* Booklet. Treats of development of Western Pine industry.

MAILING LISTS
Ross-Gould Co., 324 N. 10th St., St. Louis, Mo.
4471. *Catalog and Reference Book.* Contains index to various mailing lists for use in direct mail advertising.

MARKING DEVICES—See Branding Irons

MARQUISES
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp.

METALS AND METAL BUILDING SPECIALTIES
American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
2181. *Reference Book. Pocket Edition.* Illus. 168 pp.
2182. *Apollo and Apollo-Keystone Galvanized Sheets.* Catalog. Illus
2183. *Research in the Corrosion Resistance of Copper Steel.* Booklet. Illus. 24 pp. Gives technical information.
2184. *Facts Simply and Briefly Told.* Booklet. Illus. 16 pp. Gives non-technical statements on *Keystone Copper Steel.*
Bridgeport Brass Co., Bridgeport, Conn.
2511. *Seven Centuries of Brass Making.* Booklet. 77 pp. Illus.
2512. *Tested High Speed Brass Rods.* Booklet. 16 pp.
2513. *Data Book.* Booklet No. 16 48 pp. Illus. Tables and data.
2515. *Bridgeport Ledrite Rod-O-Graph.* Chart showing way to figure weight of brass rod to make screw machine parts.
Donley Bros. Co., 12920 Miles Ave., Chicago.
2551. *Donley Devices.* Catalog. 36 pp. Illus. Covers Donley line.
Edwards Manufacturing Co., Cincinnati, O.
2991. *Edwards Metal Roofing*, etc. Catalog. 224 pp. Illus.
General Fireproofing Co., Youngstown, O.
32213. *GF Metal Building Specialties.* Folder A. I. A. File No. 16E2. 20 pp. Illus. Includes information on bridging, etc.
Globe Ventilator Co., Dept. L., Troy, N. Y.
3261. *Globe Ventilator* and *Globe Chimney Cap.* Provide specifications on contract work.
Milwaukee Corrugating Co., Milwaukee, Wis.
4002. *Metal Ceilings.* General Catalog 26. 144 pp. Illus. Deals with line of metal ceilings and specialties.
4012. *Catalog No. 27.* 14 pp. Illus. Designs of Invisible joint ceilings, individual field plates, cornices, etc.
New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illustrated. Describes their leader pipes, eaves troughs, and other zinc products.
4157. *The Roof That Is Ever New.* Folder. Illustrated. Describes their Horse Head Zinc Roofing.
Sheet Steel Trade Extension Com., 715 Oliver Bldg., Pittsburgh.
5661. *Sheet Steel Service.* Monthly magazine. Deals with promotion work carried on in the interests of sheet steel.
Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad.* Literature. Describes lead coated sheets, roofing, shingles, spouting, gutter, etc.

MILLWORK—See Lumber and Woodwork

MINERAL WOOL—See also Insulation
U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool in Architecture.* Booklet. Illus.

MOLDS, CONCRETE—See Concrete Machinery

MORTAR BOARDS AND BOXES
Donley Bros. Co., 12920 Miles Ave., Cleveland, O.
2959. *Mortar Boxes.* Descriptive literature concerning metal boxes.

MORTAR COLORS
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus.
Clinton Metallic Paint Co., Clinton, N. Y.
2731. *Clinton Mortar Color.* Folder. Illus. Gives directions.
2732. *Color Card.* Portrays various shades.
2733. *Color Harmony in Brickwork.* Series of 6 folders. Illus.

OIL CLOTH—See Wall Covering, also Flooring

ORNAMENTAL IRON AND BRASS
American Brass Co., Waterbury, Conn.
2091. *Anaconda Extruded Shapes.* Folder. 4 pp. Illus. Contains color plate of full size extruded shapes of brass.
Cincinnati Iron Fence Co., 3300 Spring Grove Ave., Cincinnati, O.
2721. *Iron Fence, Gates, Grilles, Window Guards.* Broadside. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.
Mast Lightning Rod Co., W. Milton, O.
5571. *Lightning Rods, Fixtures and Ornaments.* Catalog No. 4.
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section showing their ornamental iron fence and gates.

PACKAGE RECEIVERS
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2955. *Descriptive literature.* Illus.

PAINTS, STAINS, VARNISHES AND WOOD FINISHES
Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints.* Descriptive.
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2592. *Cabot's Creosote Stains.* 16 pp. Illus. Gives description.
Certain-teed Products Corp., 100 E. 42nd St., New York.
2672. *Paints, Enamels, Varnishes, etc.* Literature. Includes samples, color cards, and prices.
General Fireproofing Co., Youngstown, O.
32214. *GF Floor Enamel.* Bulletin No. 155. 4 pp. Illus. Treats preserving and decorating of cement floors.
Johnson & Son, S. C., Dept. BA4, Racine, Wis.
3561. *Proper Treatment for Floors, Woodwork and Furniture.*
3562. *Portfolio of Wood Panels.* 14 pp. Contains actual panels.
New Jersey Zinc Co., 160 Front St., New York.
4152. *Mapaz Handbook.* Illus. *Mapaz No. 1*, a zinc oxide paint.
4153. *Zinc as a Paint Pigment.* Pamphlet. Illus.
4154. *40-40-20.* Booklet. Describes new exterior paint made from *Albalith* and XX zinc oxide with 40-40-20 formula.
Paasche Air Brush Co., 1909 Diversey Parkway, Chicago.
5731. *Descriptive Literature.* Illus. Takes up details concerning use of air brush equipment in painting work.
Toch Bros., 110 E. 42nd St., New York.
5331. *Specifications.* 60 pp. illus. catalog. Specifications for damp proofing, waterproofing, enameling.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4817. *Textone.* T3. Architects' specifications for *Textone.*

PAINTS, CEMENT
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2461. *Bishopric Sunfast Finish.* Folder. Illus. Shows reproductions in color of houses with finish applied.
2462. *Color Card.* Contains sample colors of *Sunfast Finish.*
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus.
Sandusky Cement Co., Cleveland, O.
5183. *Medusa Cement Paint.* Descriptive literature.

PANELS—See Veneer, Wallboard, Panels, Wood

PANELS, WOOD
American Plywood Corp., New London, Wis.
2151. *Plywood Stock List.* Concerns use of panels for built-in work

PARQUET FLOORING—See Flooring

PARTITIONS
Alberene Stone Co., 153 W. 23d St., New York.
2032. *Illustrated literature* on toilet partitions of soapstone.
Lupton's Sons Co., David, Philadelphia, Pa.
3847. *Catalog.* Treats with partitions and other built-in features.
McCabe Hanger Mfg. Co., 425-427 W. 25th St., New York.
3853. *Accordion and Folding Door Hangers.* Booklet No. 22-B.
Richards-Wilcox Mfg. Co., Aurora, Ill.
4426. *Partitions.* Illus. Booklet. 32 pp. Shows tracks and hangers for various styles of door partitions.
4428. *Catalog No. 40.* Lists sliding and folding partition door hardware.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4818. *Pyrobar Partition and Furring Tile Book.* Bulletin PT3.

PERGOLAS
Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3332. *Arbors and Pergolas.* Circular D-61. 4 pp. Illus.

PIPE—See also Metals and Metal Building Specialties
American Brass Co., Waterbury, Conn.
2092. *Ten Years Hence.* Booklet. 16 pp. Illus. Discusses the problem of permanent water pipe installation in the home.
2093. *Brass Pipe for Water Service.* Publication B1, 2nd edition.

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The new
PARKS
Cabinet Shop Special
No. 7
$250.
as illustrated with motor



Contractors wanted it! Parks built it!

Features:

Motor is where it belongs, out of the way.

Equipped with a real band saw, one of the essential machines on any job.

Jointer and saw on separate mandrels run by a single belt.

Builders have been searching for a combination woodworker that would enable them "to take the shop to the job" not simply a circular saw, but a machine that would make practically any cut.

But heretofore, every attempt to produce handy "portability" and lightness has meant either loss of durability, capacity or service.

Then Parks went at the job, with 40 years of leadership in designing low-cost, compact, efficient combination woodworkers as a safe beginning.

In the Parks Cabinet Shop Special No. 7 neither capacity, durability, strength, nor service has been sacrificed.

It is a real machine, without freakish "stunt" designing. Yet this Parks goes through a residence door, weighs only 750 lbs., complete, operates from light socket, does every useful woodworking operation and costs only $250 complete with motor!

No wonder Parks is working overtime to make deliveries! Get your order in without delay. Write us for name of your nearest dealer and complete descriptive bulletin No. 7.



Have you a copy of the new Parks catalog?

The Parks Ball Bearing-Machine Co.
Station A CINCINNATI, O.

**Canadian Factory: 200 Notre Dame East
Montreal, Canada**

PARKS
WOODWORKING MACHINES

"The Best Producer On Our Pay Rolls"

NEWARK HOUSING CORPORATION
22-24 William Street
NEWARK, N. J.

August 10, 1925.

HUTCHINSON MANUFACTURING CO.,

Gentlemen: About May 20, 1923, we received from the factory a Hutchinson Speed Marvel which we purchased with a view to reducing labor costs in our construction work.

We build in units of ten houses. The houses we were starting when we bought the Speed Marvel were of the Bungalow type, six rooms and bath on one floor.

As soon as the Speed Marvel was hooked up it got busy at once, and upon completion of this unit we came to the conclusion it had earned its cost price.

We are free to say we would not contemplate any wood construction without this machine.

The many kinds of work it does in our judgment displaces two carpenters daily and expedites the work of those on the job. It is the best producer we have on our pay rolls.

Yours very truly,

NEWARK HOUSING CORPORATION
A. H. B. Harper,
Supt.

The Speed Marvel

You, too, would say that the Speed Marvel is the best producer on your pay rolls. And don't overlook the fact that after the first job the Speed Marvel costs you nothing—and works for years without repair bills. Right for the shop, and easy to take out on the job. Mail the coupon for details.



Crosscuts 8-inch; Rips 4-inch

We also manufacture The Beaver, which is guaranteed as the world's best light-socket woodworker. The Beaver will rip or crosscut 2-inch material.

It Will Pay You to Mail This Coupon and Get Acquainted With the Speed Marvel

HUTCHINSON MFG. CO.
NORRISTOWN, PA.

To Hutchinson Mfg. Co., Norristown, Pa.

Please send full particulars on your woodworkers. I am particularly interested in the machine I have checked below.

☐ The Speed Marvel with 3 H.P. Motor.

☐ The Beaver with either ½ or 1 H.P. Motor.

Name .....
Business .....
P. O. ..... State .....
St. or R. D..... (BA)

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Selected List of Manufacturers' Literature

(Continued from page 170)

Bridgeport Brass Co., Bridgeport, Conn.
2513. *Data Book.* Booklet No. 16. 48 pp. Illus. Tables and data.
2514. *Brass Pipe and Pipings.* Bulletin No. 15. Illus.
Johnson Plumbing Supply Co., 3641-43 So. Halsted St., Chicago.
3571. *Johnson Catalog.* Illus. Covers entire line.

PIPE, CONDUCTOR

Lupton's Sons Co., David, Philadelphia, Pa.
3848. *Literature.* Illus. Describes ventilators and conductor pipe
Milwaukee Corrugating Co., Milwaukee, Wis.
4002. *General Catalog No. 26.* 144 pp. Illus
New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illus. Contains information regarding downspouts and gutters of *Horse Head* zinc.
Wheeling Corrugating Co., Wheeling, W. Va.
5031. *Hand-Dipped Conductor Pipe.* Descriptive literature.

PLANS

American Face Brick Assn., 130 N. Wells St., Chicago.
Bungalow and Small House Plans. (See listings under Brick.)
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2465. *Bishopric Plan Book.* Illus. Contains 32 suggestions for houses costing from $7,000 to $20,000. Price, 25 cents.
Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.
2711. *Five Room Bungalow.* Blue print plans.
Common Brick Manufacturers' Assn., 2121 Title Guarantee Bldg., Cleveland, O.
City and Farm House Plans. (See listings under Brick.)
Contractors Plan Service Co., Box 115, Dayton, O.
5251. *Plan Books.* Descriptive literature.
Keith Corp., 100 N. 7th St., Minneapolis, Minn.
3602. *Keith's Magazine.* Monthly. Subscription offer of $3.25 includes 278-page De Luxe edition, "Beautiful Homes."
Stevenson, R. L., 521 Paddock Bldg., Boston, Mass.
4071. *Homes of Character.* Folder. 4 pp. Illus. Describes the book, "Homes of Character," containing 100 designs of houses from $5,000 to $20,000, with floor plans, etc. Price of books, $2.00 de Luxe edition; $1.00 paper bound.
Stillwell, E. W., & Co., 270 California Bldg., Los Angeles, Cal.
4691. *All-American Homes.* 50 houses, 7 to 10 rooms. $1.00.
4692. *The New Colonials.* 50 houses, 6 to 10 rooms. $1.00.
4693. *Southwest Stucco Homes.* 75 duplexes to bungalows. $2.00.
4694. *Little Bungalows.* 75 houses, 3 to 5 rooms. $1.00.

PLASTER BASE—See Stucco Base, also Lath

PLASTER BOARD—See Wallboard

PLUMBING EQUIPMENT—See also Bathroom Fixtures

Alberene Stone Co., 153 W. 23d St., New York.
2033. *Illustrated literature* on soapstone kitchen sinks.
Andrews Heating Co., 2001 Heating Bldg., Minneapolis, Minn.
2251. *Catalog.* Describes Heating, Plumbing Equipment.
Chemical Toilet Corp., 801-21 Free St., Syracuse, N. Y.
5641. *Sani-Equip Septic Tanks and Waterless Toilets.* Booklet. Illus. Describes a chemical toilet installation
Crane Co., 836 S. Michigan Ave. Chicago.
2841. *Plumbing Suggestions for Home Builders.* 80 pp. Illus.
2842. *Plumbing Suggestions for Industrial Plants.* 44 pp. Illus.
Hardin-Lavin Co., 121-31 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.
B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.
Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
3631. *Kenney Curtainless Shower.* Catalog A. Illus.
Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4283. *Penberthy Injectors.* Series of folders. Illus. Describe various types and models
4284. *Washing Machine Drainer.* 4 pp. Illus. Explains how product is used with faucet attachment.
4285. *Safeguard Water Gage.* 4 pp. Illus.
4281. *Automatic Cellar Drainer.* Folder. 8 pp. Illus. Gives prices.
4289. *Sales Talks.* Semi-monthly pamphlet for jobbers.

PORCHES

Thomas J. Malia, 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes porch enclosures, metal weather strips and rust-proof fly screens.
Welsse Mfg. Co., La Crosse, Wis.
4991. *Literature.* Describes combination glass and screen enclosed porches.

PUMPS

C. H. & E. Manufacturing Co., Clinton & Mineral Sts., Milwaukee, Wis.
2582. *Power-Driven Diaphragm, Road, and Centrifugal Pumps.* Litature. Illus.
Dayton Pump & Mfg. Co., Dayton, O.
2901. *Catalog.* Describes their pumps for light and heavy work.
Fairbanks, Morse & Co., 900 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets. Directs attention of builders and architects to home water systems.
Flint & Walling Mfg. Co., Kendallville, Ind.
3091. *Running Water Under Pressure.* Catalog No. 115. 48 pp. Illus. Deals with water systems, including pumps, tanks, etc.
Kwik-Mix Co., Port Washington, Wis.
3752. *High Lift Diaphragm Pumping Units.* Leaflet. 2 pp. Illus.
Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 57. 414 pp. Illus.

PYROBAR GYPSUM TILE

United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletin P73.* Architectural data, *Pyrobar* partition tile.

RADIATORS

American Radiator Co., 40 W. 40th St., New York.
2164. *"Corto, the Radiator Classic."* 16 pp. Illus.
2161. *The Ideal Fitter.* 21st edition of hand book. 346 pp. Illus. Contains tables and specifications concerning radiator fitting.
4834. *Triton Plan U. S. Radiators.* Illustrated booklet. 23 pp.

RADIO PRODUCTS

Mast Lightning Rod Co., W. Milton, O.
5571. *Mast Radio Connectors.* Catalog No. 4. Deals with sectional form of lightning rod for aerial use.
Penberthy Injector Co., Holden Ave., and Grand Trunk Ry., Detroit, Mich.
4286. *Radio Apparatus.* Series of folders. Illus. Describe *Penberthy* head phones, loud speakers, crystal sets, etc.
Pole & Tube Works, Inc., Newark, N. J.
4231. *Flag Poles and Radio Mast.* Provide designs.

RANGES—See also Heating Equipment

American Heating & Lighting Co., Morenci, Mich.
2133. *Clark Jewel Stoves.* 12 pp. Illus. For use with cold process gasoline gas.
American Stove Co., Lorain, O.
2191. *Catalog No. 94.* Illus. 70 pp. Describes *Clark Jewel Gas Stoves* with *Lorain Heat Regulator.*
2192. *Catalog No. 95.* Illus. 24 pp. *Direct Action Oil Stoves* with *Lorain High Speed Burner.*
2194. *Catalog No. 97.* Illus. 24 pp. Gives information on direct action coal ranges.
2195. *Catalog No. 117.* Illus. 42 pp. Describes *Clark Jewel* oil and gasoline stoves with *Lorain* burners.
Buffalo Co-operative Stove Co., Buffalo, N. Y.
5822. *Literature.* Describes complete line.
Ohio State Stove & Mfg Co., 666 Lakeshore Drive, Chicago.
4231. *The Kab Range.* Catalog BA-3. Illus. Describes a combination of the *Packer All-Steel Kitchen Cabinet* and *Ranges.*
Standard Gas Equipment Corp., 18 E. 41st St., New York.
4621. *Vulcan Gas Ranges and Appliances.* Catalog 48. Illus.
4622. *Vulcan Gas Equipment* for Hotels, Hospitals, Restaurants, etc.
4623. *The Vulcan Bulletin.* Monthly house organ.
4624. *How Kitchen Space Was Saved in Planning.* Practical specification folder with plans.
4625. *Oriole Gas Ranges.* Catalog. 50 pp. Illus.
Thatcher Co., 39 St. Francis St., Newark, N. J.
4764. *Catalog.* Illus. Gives information relating to their ranges.

REFRIGERATORS

Herrick Refrigerator Co., Waterloo, Ia.
3371. *Refrigerators.* 56 pp. Describes various types.
McCray Refrigerator Co., 2464 Lake St., Kendallville, Ind.
3861. *Refrigerators for Residences.* Catalog No. 95. Illus.
3863. *Refrigerators for Hospitals and Institutions.* Catalog No. 64.

REGISTERS

Hart & Cooley Co., Inc., New Britain, Conn.
3862. *Refrigerators for Hotels, Clubs, and Restaurants.* Catalog.
3302. *Registers.* Catalog No. 24. Illus. Contains complete list.
Tuttle & Bailey Mfg. Co., 2 West 45th St., New York.
4802. *Tanbo Antique.* Sample of this finish for registers.

ROOF INSULATION—See Insulation

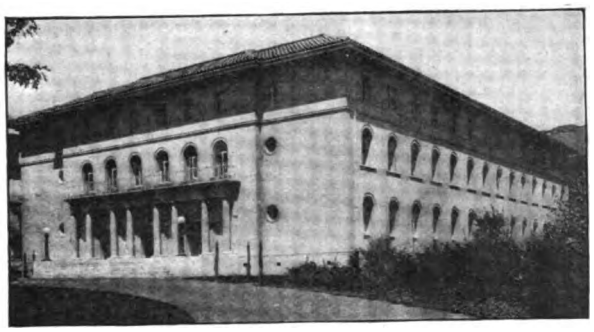
ROOFING MACHINERY

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2571. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.
Hansen Co., L., 2303 Ward Ave., Kansas City, Mo.
3281. *Roofing Tile.* Bulletin. Explains use of Hansen machines.
3282. *Circular.* Describes roof tile making machinery.

ROOFING MATERIALS

American Insulation Co., Roberts Ave. and Stokley St., Philadelphia.
2142. *Make Your Next Roof Last.* 6 pp. Illus. Deals with *Eternit* asbestos shingles.
2143. *Building a Roof That Beautifies and Lasts.* 22 pp. Illus
American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
2186. *Better Buildings.* Catalog. 32 pp. Describes corrugated and formed sheet steel roofing and siding products.
2187. *Copper—Its Effect Upon Steel for Roofing Tin.* Catalog. Illus.
Asbestos Shingle, Slate & Sheathing Company, Ambler, Pa.
2281. *Ambler Asbestos Shingles.* Catalog. 44 pp. Illus.
2282. *Ambler Asbesto Corrugated Roofing and Siding.* Catalog.
2284. *Engineer's Data Sheets.* 40 pp. Illus. Specifications.
Barrell Co., Wm. L., of N. Y., Inc., 50 Leonard St., New York.
2361. *Con-ser-tex Canvas Roofing.* Describes treated fabric used for roofing, with directions for laying.
Barrett Co., 40 Rector St., New York.
2371. *Better Home for Old Houses.* Shows common type of old houses. Contains suggestions from leading architects.
2372. *Barrett Roofings for Every Purpose.* Folder.
2373. *Barrett Special Products.* Folder.
2374. *Barrett Giant Shingles.* Folder.
2375. *Barrett Specialties.* Booklet.
2376. *Handbook.* 96 pp. Describes products.
Beaver Products Co., Inc., Buffalo, N. Y.
2401. *Catalog.* Illus. Describes their shingles, roll roofing, etc.
2402. *Literature.* Describes plan for repair and remodeling work on time payment plan.
Beckman-Dawson Roofing Co., 11 W. Jackson Blvd., Chicago.
2411. *Shelter.* Booklet. 16 pp. Illus. Takes up development of roofing material from primitive times to today.
2412. *Asphalt Shingles.* Series of folders. Deal with tests and application of *Winthrop* tapered shingles.
Bird & Son, East Walpole, Mass.
2453. *Liquid Roof Coating.* Folder. 4 pp. Illus. Explains use as protectant. Includes description of plastic cement.
Boyle & Co., John, Inc., 112 Duane St., New York.
2051. *Prepared Canvas.* 4 pp. Illus. Concerns *Bayonne* roof and deck cloth. Includes prices.
Carey Co., Philip, 520-540 Wayne Ave., Cincinnati, O.
2641. *Before You Build.* Booklet. Discusses use and qualities of *Asfaltslate.* Sample sent.
Certain-teed Products Corp., 100 E. 42nd St., New York.
2675. *Certain-teed Roofs.* Literature. Includes color cards, prices.
Cortright Metal Roofing Co., Philadelphia, Pa.
2831. *Cortright Metal Shingles.* Booklet. 8 pp. Illus.
2832. *Catalog.* Illus. Deals with metal shingle roofing.
Edwards Manufacturing Co., Cincinnati, O.
2991. *Edwards Metal Roofing, etc.* Catalog. 224 pp. Illus. Covers complete line of *Edwards* products.
Emack Co., John D., 17 E. 49th St., New York.
3021. *Olde Stonesfield Roofs.* Booklet 37A. Illus. Shows houses with *Olde Stonesfield Roofs.*
3022. *Thatchslate.* Booklet 37B. Illus.

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Dominican College Conservatory of Music, San Rafael, Cal.
Deadened with Cabot's Quilt
M. M. Bruce, Architect, San Francisco

"Next to light and ventilation the most important item of school-house construction is sound-proof floors and partitions."

Sound Proof Floors and Partitions

are necessary in all safe and sane schoolhouses and are produced by

Cabot's Deadening "Quilt"

The Standard Sound Deadener

It breaks up and absorbs the sound waves as no other deadener can; it is indestructible, uninflammable, scientific and sanitary; cannot rot, will not harbor moths or vermin, and resists fire.

"I have found the Quilt invaluable as a deadener of noise"—Rudyard Kipling.

Samples and special brochure on schoolhouse deadening, illustrated, sent on request.

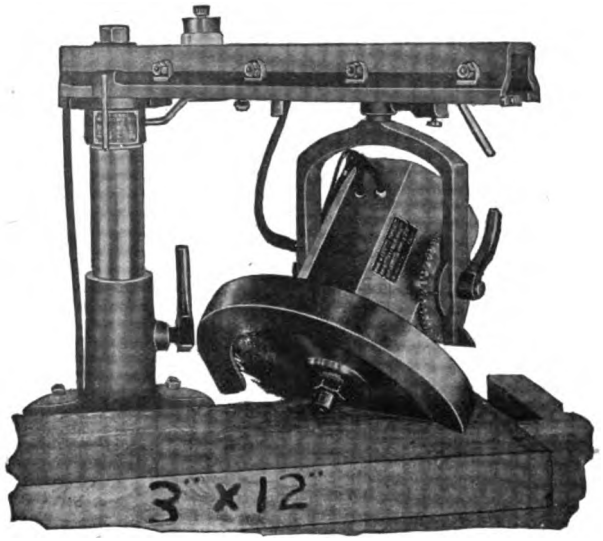
Samuel Cabot, Inc., Mfg. Chemists
Boston, Mass.
342 Madison Ave., New York
5000 Bloomingdale Ave., Chicago
Philadelphia Kansas City Minneapolis Los Angeles
San Francisco Portland



Agents All Over the Country

Cabot's Creosote Stains, Stained Shingles, Old Virginia White, Double White, Waterproof Stucco and Brick Stains, Etc.

WANTED!
A POSITION



I will work for you for 50c a day.

I am the most efficient woodworker on the market, doing every kind of woodworking operation without trouble or fuss.

If at the end of 30 days' trial I have not done more work than any other man on the job, then Fire Me and ship me back to the De Walt Products Company, Leola, Pa., and they will pay you 50c a day for the 30 day period of the trial.

I am glad to furnish the following references:

Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa.
Wardman Construction Co., Inc. ..... Washington, D. C.
Frank Lossing (four) ..... Sanford, Fla.
Long Bell Lumber Co. ..... Longview, Wash.
Pittsburgh Plate Glass Co. ..... Pittsburgh, Pa.
John H. McClatchy ..... Philadelphia, Pa.
Chas. H. Finch Lumber Co. ..... Brooklyn, N. Y.
Wilcox Bros. (two) ..... Palm Beach, Fla.
E. K. Jones (two) ..... De Land, Fla.
Arthur N. Huggins (two) ..... Orlando, Fla.
Marshall Jackson Co. (three) ..... Lakewood, Fla.
Southern Mill & Bungalow Co. (three) ..... Hollywood, Fla.
Jacksonville Terminal Co. ..... Jacksonville, Fla.
Cureton Lumber Co. ..... Miami, Fla.
Dixie Novelty Works (two) ..... Miami, Fla.
Sanford Cash Lumber Co. (two) ..... Sanford, Fla.
Coral Gable Construction Co. ..... Coral Gables, Miami, Fla.
Seminole Lumber Co. ..... Ft. Myers, Fla.
Elliott Sign Co. (two) ..... Miami, Fla.

DE WALT WOODWORKER
Manufactured by
DE WALT PRODUCTS COMPANY
Leola, Lancaster Co., Pa.

--------MAILING COUPON--------

De Walt Products Company,
Leola, Lancaster County, Pa.

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Name .....

Address .....

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(Building Age)

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Selected List of Manufacturers' Literature

(Continued from page 172)

Holorib, Inc., Cleveland, O.
5761. *Insulated Roofs.* Catalog. **Takes up roof sheets of steel fabricated by special process.**

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.

Johns-Manville, Inc., 292 Madison Ave., New York.
35512. *Asbestos Roofing.* 4 pp. Illus. Takes up *Brooks Brand*, white top roofing.
35513. *Rocks or Rags.* 14 pp. Illus. Tells of material used in *J-M* shingles.
35515. *Ready-to-Lay Roofing.* 16 pp. Ill.

Keystone Roofing Mfg. Co., York, Pa.
3661. *A Distinctive Roof.* Booklet. Describes application of *Hexo-Diamond* slate-coated asphalt shingle. Includes sample.

Knickerbocker Slate Corporation, 153 E. 38th St., New York.
3701. *Slate.* Booklet. 16 pp. Illus.

Malleable Iron Fittings Co., Branford, Conn.
5311. *Nail Knowledge.* Booklet. Illus. 16 pp. Gives data on their zinc coated, rust-proof shingle and slating nails.

Milwaukee Corrugating Co., Milwaukee, Wis.
4006. *Milcor Slate Roofs.* 12 pp. Illus. *Titelock Metal Tile.*
4007. *Milcor Roofs of Permanent Beauty.* 4 pp. Illus. Shows use of Milcor Spanish Tile.

Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City, N. J.
4121. *Shingles That Last.* Illus. Offers various types of metal and asbestos shingles and roofing material.
4122. *Metal Shingles, Spanish Metal Tile, and Metal Roofing.* Literature. Illus.

Nelson Mfg. Co., B. F., Minneapolis, Minn.
4131. *Quality Roofs.* Folder. 12 pp. Illus. Deals with *Nelson Master Slab Roof.* Includes plates in color and samples.

New Jersey Zinc Co., 160 Front St., New York.
4155. *Standing Seam Horse Head Zinc Roofing.* Folder. Includes instructions for laying details, and data.
4157. *The Roof That Is Ever New.* **Folder. Illustrated.**

Richardson Co., Lockland, Cincinnati, O.
4411. *Biskalt Membrane Roofs.* 36 pp. Contains specifications for applying membrane roof over boards and concrete.
4412. *Roofs of Distinction.* Illus. catalog. 20 pp. Discusses roofing problems, weather defense, etc.
4413. *Lok-Lap Asphalt Shingles.* Illus. 10 pp. Describes laying of this shingle in various designs.
4414. *What Color for the Roof?* Illus. booklet. 19 pp. **Takes up** uses of *Multicrome* roofs in various styles and types.

Ruberoid Co., 95 Madison Ave., New York.
4481. *Ru-ber-oid Facts Worth Knowing.* Illus. Booklet. 20 pp.
4482. *Eight Folders.* Series of 8. Deals with strip shingles, roofing, liquid fibre-cement, roof coating, etc.

Stearns Lumber Co., A. T., 87 Taylor St., Neponset, Boston.
4642. *Cypress Lumber and Its Uses.* **Booklet. Illus. 48 pp.**

United States Gypsum Co., 205 W. Monroe St., Chicago.
4819. *Bulletin RT27.* Architectural data. *Pyrobar* construction.
4813. *Bulletin SP2. Sheetrock Pyrofill* roof and floor construction.

Vendor Slate Co., Inc., Easton, Pa.
4861. *A Book for Architects.* Illus. Catalog. 24 pp.
4862. *Vendor Book of Roofing, Slate for Architects.* Illus. 44 pp.

Weatherbest Stained Shingle Co., Inc., 145 Main St., North Tonawanda, N. Y.
4961. *Book.* Describes *Weatherbest Thatched Effect Roof Construction.* Also, a set of samples showing *Weatherbest* colors.
4963. *Book.* Devoted to remodeling of old homes.

Wheeling Corrugating Co., Wheeling, W. Va.
5032. *Descriptive literature.*

Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad.* Literature. Describes lead coated sheets, roofing, shingles, spouting, gutter, etc.

ROOF TRUSSES

McKeown Bros. Co., 21 E. 40th St., New York.
3871. *Clear Floor Space.* Folder. 4 pp. Takes up various types of trusses used in building construction.

ROUTERS AND CARVERS—See Woodworking Machinery

RULES—See Drafting and Surveying

SALAMANDERS

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
29512. *Donley Salamanders.* Leaflet. Illus.

SANDERS—See Floor Surfacing Machinery

SANITAS—See Wall Covering

SASH BALANCES—See Hardware, Window

SASH CORDS

Bayley Co., Wm., Springfield, O.
2387. *Bayley-Springfield Operators.* Booklet P19. 8 pp. Illus.

Samson Cordage Works, 88 Broad St., Boston, Mass.
4501. *There Is a Difference in Sash Cord.* Folder. Illus. Describes *Spot* sash cord and *Phoenix* sash cord.
4502. *Catalog.* Includes samples of sash cord.

SAW FILES AND SETTERS

Atkins & Co., E. C., Indianapolis, Ind.
2301. *Saws, Saw Tools and Machine Knives.* Catalog. 272 pp. Illus.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2345. *Descriptive literature.* Illus.

Foley Saw Tool Co., 912-18 E. Lake St., Minneapolis, Minn.
3101. *Foley Automatic Saw Filer and One-Minute Rotary Saw Setting Tool.* Folder. 12 pp. Illus.

SAWS & SAW MACHINERY—See Woodworking Machinery

SAW RIGS—See Woodworking Machinery

SCAFFOLDING—See also Brackets

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.
3173. *Gabriel Scaffolding.* Descriptive literature.

Steel Scaffolding Co., Evansville, Ind.
4651. *Catalog C.* Illus. 16 pp. Describes *Trouble-Saver* Steel Scaffolding, giving prices.
4652. *Adjustable Steel Scaffolding.* Descriptive matter.
4653. *Sectional Steel Scaffolding.* Folder. Illus.
4654. *Steel Trestles.* Folder. Illus. Descirptive.
4655. *Roofing Brackets.* Describes several types. Folder.
4656. *Sheathing Brackets.* Leaflet. Illus.

SCHOOLS

Chicago Tech College, 1038 Chicago Tech. Bldg., Chicago.
2711. *How To Read Blue Prints.* Booklet. Illus. Includes set of blue print plans.
2712. *Trial Lesson.* Includes blue prints and description of home-study course in architectural drafting.

SCRAPERS

Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* **Catalog. Illus.**

SCREEN MANUFACTURERS' MACHINERY

DeWalt Products Co., Leola, Lancaster, Pa.
2943. *DeWalt Machinery.* Folder. 4 pp. Illus. **Takes up** application of this machine for screen manufacture.

Markwell Mfg. Co., 176 Franklin St., New York.
3941. *Markwell Catalog.* 30 pp. Illus. Describes various appliances for the sash and screen maker.
3942. *Screens for Profit.* Folder. 4 pp. **Illus.**

SCREENS

American Brass Co., Waterbury, Conn.
2094. *Screens that Meet the Test.* Booklet. 16 pp. Illus. Describes development of screening from historical angle. Discusses use of *Antique* or *Golden Bronze* wire screens.

American Wire Fabrics Co., 208 S. La Salle St., Chicago.
2221. *Catalog of Screen Wire Cloth.* Illus. Deals with line of black enamel, galvanized, American bronze screen cloth.
2222. *Monel Metal Screen.* **Folder. 8 pp. Illus**
2223. *Wire Cloth Table.* Shows number sq. ft. per roll and sq. ft. in various widths and lengths.

Dennis & Co., W. J., 2110 W. Lake St., Chicago.
2912. *Dennis Screen Moulding.* **Describes product for use in the making of screens.**

Gilbert & Bennet Mfg. Co., 937-9 1st Nat'l Bank Bldg., Chicago.
3241. *Heart Wire Cloth.* Contains description and samples.

Malin, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes rust-proof fly screens, porch enclosures and metal weather strips.

New Jersey Wire Cloth Co., Trenton, N. J.
4141. *A Matter of Health and Comfort.* Booklet. Illus. Discusses use of *Jersey* copper insect screen cloth. **Includes samples.**

Wickwire Spencer Steel Corp., Worcester, Mass.
5082. *Hardware Products.* Devotes section to screen cloth.

SEWAGE DISPOSAL—See Plumbing Equipment

SHADES AND SHADE ROLLERS

Edstrom, Wetmore & Henderson, Warren, Pa.
2081. *Automatic Stop Shade Rollers.* Descriptive literature.

SHAFTS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2346. *Flexible Shafts.* Bulletin. Illus.

SHEATHING—See Insulation, also Stucco Base

SHEATHING PAPER—See Building Paper

SHELVES

Garden City Plating & Mfg. Co., 1430 S. Talman Ave., Chicago.
3191. *Adjustable Shelves.* Literature. Includes samples.

SHINGLES—See Roofing Materials

SHINGLE STAINS—See Paints, Stains, Varnishes.

SHOWERS—See also Plumbing, also Bathroom Fixtures.

Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
3631 *Kenney Curtainless Shower.* **Catalog A. Illus.**

SKYLIGHTS

American 3-Way Luxifer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2203. *3-Way Ventilating Skylights.* 4 pp. Illus.
2204. *Steelead.* Describes puttyless, metal skylight construction.
2205. *3-Way Reinforced Concrete.* Discusses concrete and glass.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Milwaukee Corrugating Co., Milwaukee, Wis.
4008. *Milcor Guide.* Illus. Explains details of *Puttyless Skylight.*

SLATE—See also Roofing Materials

Emack Co., John D., 17 E. 49th St., New York.
3022. *Thatchslate.* Booklet 37B. Illus.
3023. *Olde Stonesfield Flagging, Walks, Terraces and Coping.* Booklet 37C. Illus.

Knickerbocker Slate Corporation, 153 E. 38th St., New York.
3701. *Slate.* Booklet. 16 pp. Illus. Deals with roofing and structural slate and blackboards.

Structural Slate Co., Pen Argyl, Pa.
4701. *Structural Service Data and Standards.*
4702. *Plumbing Catalog.* Deals with slate for the contractor.

Vendor Slate Co., Inc., Easton, Pa.
4861. *A Book for Architects.* Illus. Catalog 24 pp.
4862. *The Vendor Book or Roofing Slate for Architects.* **Illus.**

SOUND DEADENING MATERIAL—See Insulation

STAIR TREADS

Alberene Stone Co., 153 W. 23d St., New York.
2034. *Illustrated Literature* on stair treads of soapstone.

Norton Co., Worcester, Mass.
4211. *Norton Floors.* Booklet. 24 pp. Describes the several types of *Alundum* floor with reference to their applications.
4212. *Norton Floors.* Monthly House Organ. 4 pp. Illus.
4213. *Alundum Safety Tile.* Booklet. 38 pp. Presents one type.

Safety Stair Tread Co., Wooster, O.
4491. *Wooster Safe-Groove Stair Treads.* Catalog. Describes these treads and thresholds and security nosing made of white brass, brass and black steel.
4492. *The Wear on Stairs.* Catalog. Deals with methods of repairing worn stairs.
4493. *Stair Nosing, Wooster Security Nosing.* Catalog. Describes method of protecting edges of various flooring materials.

Universal Safety Stair Tread Co., 40 Court St., Boston.
5381. *Universal Safety Tread.* Booklet. Discusses installations on cement, metal or wood steps.

Wright Rubber Products Co., Racine, Wis.
5141. *Illustrated Folder.* Describes their rubber stair tread.

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Kernerator-equipped residence of Mr. H. W. Kanouse, Lochmoor Blvd., Grosse Pointe Shores, Michigan: architect, Aloys F. Herman.



Pays!

—architect
—builder
—owner
—tenant

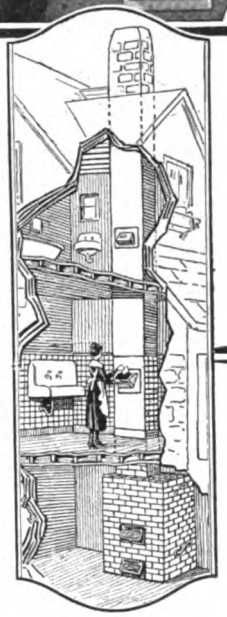
BY banishing permanently the old-fashioned, unsanitary, garbage can and rubbish pile, the time-tried Kernerator PAYS, unmistakably, all concerned in building.

Pays the architect, because it is a safe, sure, standard-practice recommendation, that through happy experience is a credit to his sound judgment—

Pays the builder, because installation is simple, proper functioning 100 per cent guaranteed, and satisfaction assured—

Pays the owner, because it returns his investment many times over in convenience, in garbage can replacements, in absence of vermin, in sanitation, in reduced tenant-turnover—

Pays the tenant in freedom from all the annoyances incident to antiquated waste and garbage disposal methods.



Above is shown a typical Kernerator residence installation. The Kernerator (which must be built-in, as it cannot be installed later) costs no more than a good radio set.

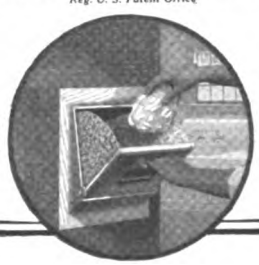
Costs Nothing to Operate— No Fuel Needed

The Kernerator consists of a brick combustion chamber, in the basement, with handy hopper doors located in the flue, in or near the kitchen. All waste—garbage, tin cans, bottles, papers, rubbish of all kinds—is simply dropped through the handy hopper door. An occasional lighting burns everything but metallic objects and like non-combustibles, which are flame-sterilized for removal with the ashes. No fuel used—the waste itself is fuel for its own destruction.

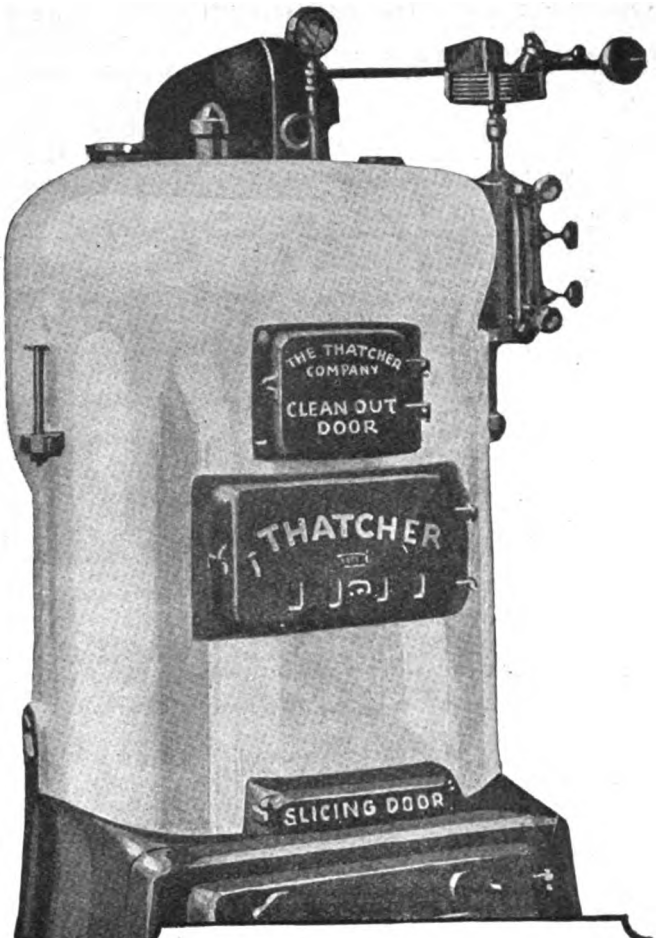
For details, consult Sweet's (1924) Pages 2536-37, or write—

KERNER INCINERATOR COMPANY
727 East Water Street, MILWAUKEE, WIS.

KERNERATOR
Built-in-the-Chimney
Reg. U. S. Patent Office



Drop all waste here — *—then FORGET it!*



HERE'S exact heat regulation! There are no "ups and downs" in temperature with the Thatcher Round Boiler.

This is because the Boiler is always under absolute and automatic control, due to the butterfly door in the ashpit and a sensitive diaphragm attached to the large damper in the smoke hood. It is important to remember also, that Thatcher Boiler Ratings remain unchanged. They're as conservative as ever.

The Thatcher Company,
39-41 St. Francis St., Newark, N. J.

Please send me your 1925 Boiler Catalog and full information about Thatcher Boilers.

NAME .....

ADDRESS .....

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Selected List of Manufacturers' Literature

(Continued from page 174)

STAIRWAYS, MOVABLE
Bessler Movable Stairway Co., Akron, O., or 103 Park Ave., New York.
2431. *Don't You Wish You Had More Room?* Bulletin. 8 pp. Illus. Explains use of disappearing stairway to attic.
Farley & Loetscher Mfg. Co., Dubuque, Ia.
5201. *Presto Sliding Stairs.* Descriptive literature. Includes prices.

STANDARD BUILDINGS—See Building Construction

STORE FRONTS
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Kawneer Co., 225 Front St., Niles, Mich.
3596. *Contractors' Design Book.* 128 pp. Illus. Presents selected list of store front designs.
3597. *Details Kawneer Solid Copper Store Front Construction.* Catalog L, 1925 edition. 32 pp. Illus. Comprises a treatise on installation of Kawneer solid copper store front.
Zouri Drawn Metals Co., 1608 East End Ave., Chicago Heights, Ill.
5151. *Getting People In.* Booklet. Illus. Gives plans and diagrams. Shows methods of arranging window display space.
5152. *Zouri Store Fronts.* Booklet. Illus. 1 pp.

STOVES AND RANGES—See Ranges, Heating Equipment

STUCCO—See also Cement
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2463. *Bishopric for All Time and Clime.* Booklet. Illus. 44 pp.
2461. *Bishopric Lunfast Finish.* Folder. Illus.
2467. *Old Colony.* Booklet. Describes this stucco.
Flint Rock Stucco Co., Arcade Bldg., Dayton, O.
5682. *Flint-Rock All-Mineral Stucco.* Catalog. Illus. Describes Oxy-Chloride Cement.
5683. *Architex Finish.* Catalog. Illus. Describes specially prepared colored stucco finish coat.
Lehigh Portland Cement Co., 30 E. 42nd St., New York.
3771. *Build the Castle of Your Dreams.* 32 pp.
3772. *Permanent Satisfaction in Your Building.* Illus. Book.
3773. *The Lehigh Magazine.* New House Monthly.
Master Builders Co., Cleveland, O.
5321. *Booklet.* Describes *Mastertex,* their water-proofing paint for stucco, concrete, etc.
Muller, Franklyn R., Inc., Waukegan, Ill.
4053. *Asbestone.* 16 pp. Illus. Shows details and pictures of installation of *Asbestone* magnesite stucco.
4054. *Instructions for applying Asbestone stucco.* 8 pp. Illus.
Portland Cement Assn., 111 W. Washington St., Chicago.
4353. *Portland Cement Stucco.* Bulletin. Illus. Contains data on materials, proportion, etc., and discusses approved practices.
Rocbond Co., Van Wert, O.
4461. *Better Homes.* Illus. Booklet. Describes properties of Rocbond Stucco for exterior surfaces.
4462. *Homey Homes.* Illus. Booklet. 20 pp. Shows houses of different kinds in which Rocbond Stucco has been used.
United States Gypsum Co., 205 W. Monroe St., Chicago.
48115. *Oriental Stucco Handbook, OS3.* Illus. in color and sepia.
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.

STUCCO AND PLASTER BASES
Armstrong Cork & Insulation Co., 197 24th St., Pittsburgh.
5531. *Armstrong Corkboard.* Bulletins. Illus. Material includes structural details and method of laying as a plaster base.
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2468. *Bishopric for All Time and Clime.* Catalog. Illus. 42 pp.
Bostwick Steel Lath Co., Niles, O.
2481. *Bostwick Economy.* Literature on Bostwick Metal Laths.
Celotex Company, 111 W. Washington St., Chicago.
2661. *Your Home.* Catalog. Gives information concerning *Celotex,* and deals with homes. Price, 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.
Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.
Flaxlinum Insulating Co., St. Paul, Minn.
3083. *Standard Specifications.* File 19G. Illus. Contains specifications for insulating with Flax-li-num Keyboard.
Flint Rock Stucco Co., Fourth St., Arcade Bldg., Dayton, O.
5681. *Keylock Base.* Literature. Describes waterproof, fibre base wood strip product for stucco and plaster.
General Fireproofing Co., Youngstown, O.
3229. *Herringbone Rigid Metal Lath.* Catalog. 48 pp. Illus.
32211. *Trussit.* Booklet. 16 pp. Illus. Also folder. 16 pp. Illus. Describes reinforcement for partitions and curtain walls.
32212. *GF Diamond Rib Metal Lath.* Booklet. 8 pp. Illus.
Milwaukee Corrugating Co., Milwaukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.
New Jersey Wire Cloth Co., Trenton, N. J.
4142. *Roebling Wire Lath.* Catalog. 30 pp. Illus.
NorthWestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4201. *NorthWestern.* General Catalog. 16 pp. Illus. Covers complete line of *NorthWestern* products including *Kno-Burn* metal lath, *Longspan Plasta-Saver, Nemco* channels.
4202. *Home Building.* Booklet. 32 pp. Illus.
4204. *Better Plastering.* Booklet. 12 pp. Illus.
Sykes Metal Lath Co., Niles, O.
4731. *Metal Lath for All Purposes.* Illus. Booklet. 20 pp. Contains information pertaining to their metal lath
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with metal lath and steel building specialties, with specifications and details
Truscon Steel Co., Youngstown, O.
4799. *Hy-Rib and Metal Lath.* Catalog. Illus. 64 pp. Gives properties of laths, specifications, special uses and views.
United States Gypsum Co., 205 W. Monroe St., Chicago.
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.
Wheeling Corrugating Co., Wheeling, W. Va.
5032. Descriptive literature.
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus Includes specifications for using wire lath.

SURVEYORS' INSTRUMENTS—See Drafting and Surveying

TELEPHONES—See also Electrical Equipment
Western Electric Co., New York.
5001. *Inter-Phone Systems.* Descriptive literature.

THERMOSTATS—See Heating Equipment

TILE MANUFACTURE
Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.

TILE, STEEL
General Fireproofing Co., Youngstown, O.
32215. *GF Steel Tile.* Catalog. 32 pp. Illus.
Milwaukee Corrugating Co., Milwaukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.

TOOLS
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2344. *Hammers.* Bulletin. Illus.
Combination Blow Torch Mfg. Co., 2805 W. Van Buren St., Chicago.
5591. *Literature.* Describes combination blow torch soldering and branding iron.
Everhot Manufacturing Co., Maywood, Ill.
3033. *Everhot Soldering Irons.* Descriptive literature.
3034. *Everhot Hammers.* Descriptive literature.
3036. *Everhot Shovels.* Descriptive literature.
Koehring Co., 31st and Concordia Sts., Milwaukee, Wis.
3712. *Koehring Booklet.* Lists complete line of products.
Mack Tool Co., Inc., W. Commercial St., East Rochester, N. Y.
3881. *Catalog and Price List.* 20 pp. Illus. Contains complete line of *D. R. Burton* planes, gouges, hatchets, etc.
Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.
4171. *General Catalog.* No. 10. Illus. Presents complete line.
Progressive Mfg. Co., Torrington, Conn.
4361. *Forster Bits.* Booklet. Illus. Contains specifications.
Sargent & Co., New Haven, Conn.
4523. *Sargent Standard Steel Squares.* Booklet. 32 pp. Illus.
4524. *Sargent Planes.* Catalog. 64 pp. Illus.
Swan Co., James, Seymour, Conn.
4711. *Catalog.* 104 pp. Describes *Premium Mechanic's Tools.*
4712. *Booklet.* Illus. 32 pp. Lists and briefly describes tools.
Star Expansion Bolt Co., 147 Cedar St., New York.
5331. *Literature.* Describes *Dryvins,* their expansion shield.
White Co., L. & I. J., Buffalo, N. Y.
5061. *Catalog 19A.* Describes carpenters' tools.
5062. *Catalog 20B.* Describes coopers' tools.
5063. *Several Folders.* Deal with high speed knives.

TOOLS, AIR
Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.
2791. *Berg Electric Air Cushion Hammer.* 6 pp. Illus.

TOOLS, EDGE
Atkins & Co., E. C., Indianapolis, Ind.
2501. *Saws, Saw Tools and Machine Knives.* Catalog. 272 pp.
Everhot Manufacturing Co., Maywood, Ill.
3035. *Everhot Hatchets.* Descriptive literature.
Fox Supply Co., Brooklyn, Wis.
3164. *Scraping Knives.* Descriptive literature. Describes floor scraping knives, furnishing tools, and hand scrapers.
Mack Tool Co., Inc., W. Commercial St., East Rochester, N. Y.
3881. *Catalog and Price List.* 20 pp. Illus. Contains complete line of D. R. Barton planes, gouges, hatchets, etc.
Swan Co., James, Seymour, Conn.
4711. *Catalog.* 104 pp. Describes *Premium Mechanic's Tools.*
4712. *Booklet.* Illus. 32 pp. Lists and briefly describes tools.
White Co., L. & I. J., Buffalo, N. Y.
5061. *Catalog 19A.* Describes carpenters' tools.
5062. *Catalog 20B.* Describes coopers' tools.
5063. *Several Folders.* Deal with high speed knives.

TOOLS, MARKING—See Marking Devices

TRAPS—Steam and Radiator
Johns-Manville, Inc., 292 Madison Ave., New York.
35516. *Steam Traps.* Catalog. 8 pp. Illus. Includes specifications.

TRANSITS—See Drafting and Surveying

TRESTLES—See Scaffolding

TRUCKS—MOTOR
Ford Motor Co., Detroit, Mich.
3121. *Power & Haulage.* Monthly Magazine. Contains information on *Fordson* tractor and *Ford* truck.
3122. *The Fordson.* Magazine.
General Motors Truck Co., Pontiac, Mich.
3231. *G. M. C. Trucks 1 to 15 tons Capacity.* Catalog. 48 pp.

TRUCKS, MOTOR—SUPPLIES
Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4287. *Ball & Ball Carburetor.* 8 pp. Illus. Shows details.
4288. *Lubricating Devices.* 2 folders. Describe priming caps.
Warford Corp., 44 Whitehall St., New York.
4911. *Folder.* Describes and illustrates their auxiliary transmission for Ford Trucks.
4912. *Warford Selection Type Auxiliary Transmission for Ford Trucks and Pleasure Cars.* Folder.

TRUSSES—See Roof Trusses

VALVES—See also Plumbing Equipment
Crane Co., 836 S. Michigan Ave., Chicago.
2844. *Steam Pocket Catalog.* No. 50. 775 pp. Illus.

VAULT LIGHTS
American 3 Way-Luxfer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2207. *Daylight.* 16-pp. 3 Way-Luxifer armored sidewalk lights.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus

VENEER AND VENEERING
American Plywood Corp., New London, Wis.
2151. *Plywood Stock List.* Concerns panels for built-in work.
Wheeler, Osgood Co., Tacoma, Wash.
5023. *Leaflet.* Describes *Laminex* panels.
5021. *Laminex Book.* For architects and the building trade.

VENTILATION AND VENTILATORS
Globe Ventilator Co., Dept. L, Troy, N. Y.
3261. *Globe Ventilator* and *Globe Chimney Cap.* Provide specifications on contract work.

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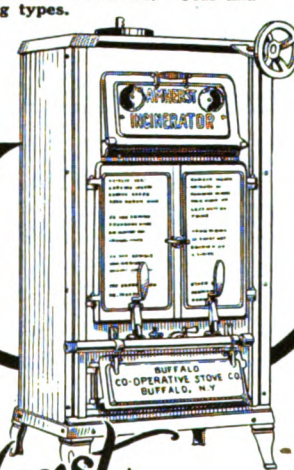
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Bockfinger & Cass, 10 E. Huron Street, Chicago, Ill.
George A. Rawlings, Arcade Building, St. Louis, Mo.
C. P. Helpman, 722 Story Building, Los Angeles, Calif.

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Selected List of Manufacturers' Literature

(Continued from page 176)

Lupton's Sons Co., David, Philadelphia, Pa.
3848. *Literature.* Illus. Describes ventilators and conductor pipe

Milwaukee Corrugating Co., Milwaukee, Wis.
4009. *Nu-Air and Milwaukee Stationary Ventilators.* 16 pp. Illus.

Riesner, Benjamin, 260 E 78th St., New York.
5791. *Riesner Ventilation Brick.* Folder. Illus. Describes standard size iron brick for ventilating.

Washburne & Co., E. G., 207 Fulton St., New York.
4932. *Descriptive Price List* of *Rotary Exhaust Ventilators.*

WALLBOARD

Asbestos Shingle, Slate & Sheathing Co., Ambler, Pa.
2285. *Descriptive Matter.* Illus. Deals with *Linabestos.*

Beaver Products Co., Inc., Buffalo, N. Y.
2403. *Folder.* Illus. Describes uses and methods of handling *Beaver Board.*

United States Gypsum Co., 205 W. Monroe St., Chicago.
48111. *Gyplath.* Catalogue Ga.
48112. *Architects' Specifications for Gyplath.*
48117. *Sheetrock Catalog.* Bulletin WB61.
48118. *Sheetrock Tile Board.* Folder WB61.

Upson Co., Lockport, N. Y.
4851. *Walls & Ceilings of Enduring Charm.* Illus. Booklet. 16 pp.
4852. *The Snow White Lining.* Illustrated catalog. 16 pp. Describes Upson Fibre Tile used in bathrooms and kitchens.
4853. *4-Page Folder.* Contains description of the Upson Blue Book of working plans and sketches for interior finishing with Upson Board. Blue Book is distributed to lumber dealers for use by builders Single blue prints, price 25 cents.
4854. *The Upsonizer.* Periodical. 24 pp. Illus.

WALL COVERING

Lloyd, W. H. S., 105 W. 40th St., New York.
5741. *Wallpaper.* Literature. Deals with company's line of imported wallpapers.
5742. *Anaglypta.* Deals with composition friezes to substitute for plaster relief.
5743. *Grass Cloth.* Booklet. Illus. Takes up line of imported grass cloths for interior decoration.

Morene Products Co., Inc., 241 W. 28th St., New York.
5371. *Morene, the Wall Finish Distinctive; a Portland Cement Product—Atlas White.* Brochure. Illustrated. Shows examples of *Morene* used for ceiling and mural decorations.

Standard Textile Products Co., 320 Broadway, N. Y.
4631. *Book of Samples in Color.* Shows design and texture of Sanitas, their sanitary cloth wall coverings.

WALLPAPER

Lloyd, W. H. S., 105 W. 40th St., New York.
5741. *Wallpaper.* Deals with imported wall papers.

WATER GAUGES—See Plumbing Equipment

WATER HEATER

American Heating & Lighting Co., Morenci, Mich.
2132. *How to Install a Water Heater.* 8 pp. Illus. Deals with cold process gasoline gas heaters.

Crane Co., 836 S. Michigan Ave., Chicago.
2843. *Crane Water Heater.* Booklet. Illus.

Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, and pneumatic waterworks fields.

Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4282. *Noiscless Water Heater.* 4 pp. Illus. Includes specifications.

Richardson & Boynton Co., 260 5th Ave., New York.
5223. *The Richardson Manual.* 419 pp. Illus. Gives data on "Richardson" Boiler for steam, hot water and vapor system, "Perfect" Warm-Air and Pipeless Furnaces, tank heaters and ranges.
5221. *Richardson Hot Water Heater. Describes Galvoxide Water Section* for use in connection with the *Richardson.*
5222. *Your Store.* This and another Booklet, for dealers.

Standard Gas Equipment Corp., 18-22 E. 41st St., New York.
4626. *Vulcan Gas Water Heater.* Booklet. Illus.

WATERPROOFING—See also Dampproofing

Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Points and Insulating Paper.*

Cabot, Samuel, Inc., 141 Milk St., Boston, Mass.
2594. *Cabot's Waterproofing Specialties.* Booklet. 14 pp. Illus. Covers damproofing, clear brick waterproofing, and clear cement waterproofing.

Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

General Fireproofing Co., Youngstown, O.
32216. *The Waterproofing Handbook.* Catalog. 72 pp. Illus

Johns-Manville, Inc., 292 Madison Ave., New York.
35517. *Aquadom.* Folder. 4 pp. Illus. Explains use.

Master Builders Co., Cleveland, O.
5321. *Booklet.* Describes *Mastertex,* their waterproofing paint for stucco, concrete, etc.

Morene Products Co., Inc., 241 W. 28th St., New York.
5373. *Folder.* Describes *Kemisol,* waterproofing and preservative for stone, brick, concrete and cement surfaces above ground.

Sandusky Cement Co., Cleveland, O.
5181. *Medusa Waterproofing.* Literature. Gives specifications and tables on *Medusa Waterproofing* in powder and paste forms.

Sommers & Co., Ltd., 342 Madison Avenue, New York.
5631. *Permantite Liquid Waterproofing.* Folder. 4 pp. Describes product for making concrete impermeable. Includes tables.
5632. *Permantite Damproofing Coating.* 6 pp. Deals with compound for brick, stone or terra cotta walls.

WATER SYSTEMS—See also Plumbing Equipment

Dayton Pump & Mfg. Co., Dayton, Ohio.
2902. *Catalog.* Illus. Deals with various types of water systems.

Duro Pump & Mfg. Co., 309 Monument Ave., Dayton, Ohio.
5671. *Duro-matic Way.* Information on the operation of Duro automatic water softener.

Fairbanks, Morse & Co., 900 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets. Directs attention of builders and architects to home water systems.

Flint & Walling Mfg. Co., Kendallville, Ind.
3001. *Running Water Under Pressure.* Catalog No. 115. 48 pp. Illus. Deals with water systems including pumps, tanks, etc.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing and heating equipment. 50 cents.

Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, and pneumatic waterworks fields.

Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 57. 414 pp. Illus. Presents complete line of Myers pumps, door hangers, store ladders, etc.

WEATHER STRIPS

Allmetal Weatherstrip Co., 229 West Illinois St., Chicago.
2041. *Circular.* 6 pp. Illus. Describes uses for hotels, residences.

Burrowes Weatherstrip Co., 1930 S. 52nd St., Chicago.
5491. *Do Your Windows Hold Out the Cold?* 4 pp. Illustrated.
5492. *Dealer Proposition.* Information on open territories.

Ceco Weatherstrip Co., 1926 So. 52nd St., Chicago.
2851. *Ceco Metal Weatherstrips.* Catalog. Illus. 16 pp. Describes these weatherstrips and their installation.

Dennis & Co., W. J., 210 W. Lake St., Chicago.
2911. *D. D. C. Spring Bronze Weatherstrip.* Includes sample, description and method of installation.

Diamond Metal Weatherstrip Co., 412 Spruce St., Columbus, O.
5621. *Diamond Weatherstrip.* Takes up details and installation.

Federal Metal Weather Strip Co., 1238-50 Fullerton Ave. Chicago, Ill.
3071. *Does it Pay?* Folder. 4 pp. Illus. Concerns the question of using weather strip.
3072. *Window and Door Equipment.* Folder. 4 pp. Illus.

Hoffbauer Co., Inc., 101 Park Ave., New York.
3411. *Metal Weather Strips.* Folder. 4 pp. Illus.

Malia, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes metal weather strips, porch enclosures and rust-proof fly screens.

WEATHER VANES

Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Copper Weather Vanes.* Illus. Catalog. 32 pp. Shows different designs of weather vanes and lightning rods.

WINDOWS, METAL

Bayley Co., Wm., Springfield, O.
2382. *Bayley-Springfield Steel Fire Windows.* Bulletin F21. 4 pp.
2383. *Bayley-Springfield Steel Office and Schoolhouse Windows.* Bulletin AA21. 4 pp. Illus. Details and description.
2385. *Bayley-Springfield Steel Windows for Basements.* 4 pp. Illus.
2386. *Bayley-Springfield Projected Ventilators, Steel Windows.*

Crittal Casement Window Co., 10957 Hearns Ave., Detroit, Mich.
2871. *Standard Steel Casements.* Catalog. 2-24. Illus. Includes data and details concerning *Crittal* copper bearing steel casement windows for residences, clubs, etc.
2872. *Cottage Casements.* Pamphlet. Illus.

Detroit Steel Products Co., 2252 E. Grand Blvd., Detroit, Mich.
2921. *Fenestra Casement Windows.* 20 pp. Illus. Describe steel casement windows with details and specifications.
2922. *Fenestra Basement Windows.* Booklet. 16 pp.
2923. *Fenestra Reversible Ventilator Windows.* 20 pp. Illus.
2924. *Fenestra Counter-Balanced Windows.* Catalog. 111 pp. Illus.
2925. *Fenestra Industrial Window Walls.* Catalog. 111 pp. Illus.
2926. *Fenestra Steel Windows for Schools.* Booklet. 32 pages. Illus.

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2956. *Donley Basement Windows.* 16 pp. Illus. Gives details.

Hope & Sons, Ltd., Henry, 103 Park Ave., New York.
3431. *Hope's Casements.* Circular. Illus. Covers line of standard size and type steel casements.

Lupton's Sons Co., David, Philadelphia, Pa.
3845. *Industrial Windows.* Catalog No. 12-A. Illustrated.

Truscon Steel Co., Youngstown, O.
4795. *Truscon Steel Sash.* Illus. 80 pp. Handbook
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog. Contains designing data, tables and views of Stock Sash installations.

WINDOWS—WOOD

Andersen Lumber Co., Bayport, Minn.
2241. *Anderson Window Frames.* 24 pp. Illus. General catalag.
2242. *Better Frames for Your Money.* 6 pp. Illus

California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of information Sheets on California White and Sugar Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.

Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.

Wheeler, Osgood Co., Tacoma, Wash.
5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of *Laminex* and *Woco* doors and includes description of *Woco* window sash.

WIRE, IRON, BRASS AND BRONZE PRODUCTS—See also Ornamental Iron and Brass

Meyers Mfg. Co., Fred J., Hamilton, O.
3981. *General Catalog.* 110 pp. Illus. Covers entire line.
3982. *Folder.* 4 pp. Illus. Describes new type of grille for the house screen door.

New Jersey Wire Cloth Co., Trenton, N. J.
4143. *Wire Work.* Descriptive literature. Illus. Treats upon wire lath, screens and kindred wire products.

Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4203. *Practical Machine Guards.* Catalog. 36 pp. Illus. Shows application of *Econo* mesh for this duty.

WIRE CLOTH—See Screens

WIRE GLASS—See Glass

WOODWORK—See Lumber and Woodwork

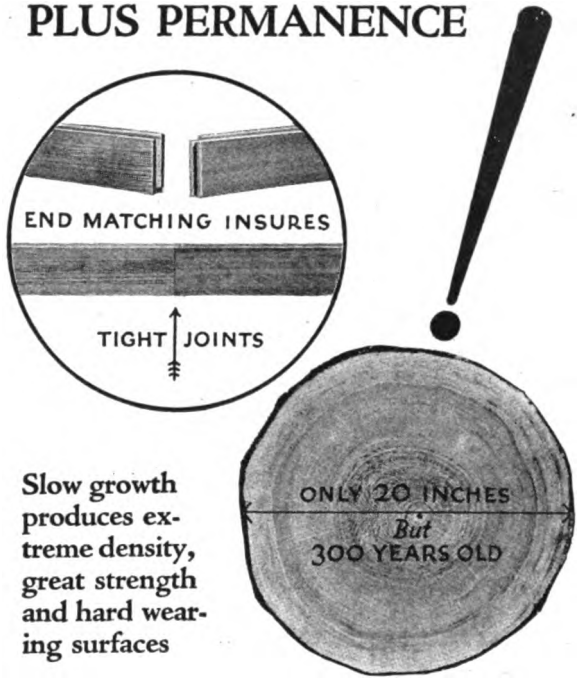
WOODWORKING MACHINERY

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2054. *Sawing with Elbow Grease or Gasoline?* Catalog. Illus.

American Saw Mill Machinery Co., 61 Main St., Hackettstown, N. J.
2171. *Catalog No.* 21. Describes circular saws of all sizes.
2172. *General Catalog No.* 22 *and Contractors' Bulletin No.* 77.
2173. *General Catalog No.* 23. Illus. 208 pp.

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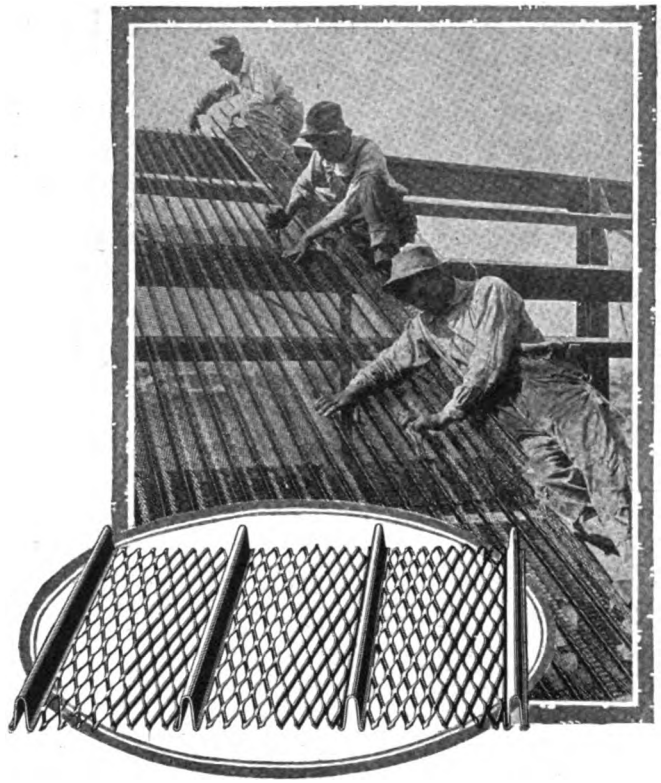
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Selected List of Manufacturers' Literature

(Continued from page 178)

Atkins & Co., E. C., Indianapolis, Ind.
2301. *Saws, Saw Tools and Machine Knives.* Catalog. 272 pp. Illus. Covers complete line of *Atkins* saws, saw filers, knives, etc.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2341. *Electric Portable Sander.* Bulletin BE. Illus.
2348. *Barker-State Saws.* Bulletin. Illustrated. Describes universal and fixed type of pedestal electric saws.

Barnes Co., W. F. & John, Rockford, Ill.
2351. *Barnes Catalog.* 38 pp. Illus. Covers line of saws, etc.
2352. *Barnes Motor Driven and Foot Power Woodworking Machines.* Booklet. 14 pp. Illus. Takes up various types.

Black Bros. Co., Inc., Mendato, Ill.
2472. *Black Veneer and Glue Room Equipment.* Catalog No. 11. 16 pp. Illus. Covers the line of clamps, presses, mortising machinery and sandpaperers.

Buffalo Forge Co., 476 Broadway, Buffalo, N. Y.
2541. Catalog, 850-54. Describes the *Buffalo* Woodworker.

C. H. & E. Mfg. Co., 259 Mineral St., Milwaukee, Wis.
2581. *Home Builder's Saw Rig.* Bulletin. 4 pp. Illus. Furnishes description, specifications and prices.
2585. *Portable Saw Rigs.* Illus. Takes up six sizes with power built in and under table.

Colgan Machinery & Supply Co., 16 E. Broad St., Columbus, O.
2741. *Would You Bore Holes with a Hot Iron?* Folder. 4 pp. Illus. *Champion* hand and electric power mortisers.

Crescent Machine Co., 206 Main St., Leetonia, O.
2861. *Crescent Saw Tables.* Catalog. 20 pp. Illus.

Cresson-Morris Co., 18th & Allegheny Ave., Philadelphia.
5811. *20th Century Woodworker.* Circular. Illus.

DeWalt Products Co., Leola, Pa.
2941. *DeWalt Woodworker.* Folder. 4 pp. Illus. Furnishes information regarding *DeWalt* universal woodworker.

Gallmeyer & Livingston Co., Grand Rapids, Mich.
3181. *Union Woodworking Machines.* Booklet. 16 pp. Illus.
3182. *Woodworking Machinery.* Booklet. 14 pp. Illus.

Hutchinson Mfg. Co., Norristown, Pa.
3451. *Don't Let Dollars Slip Through Your Fingers.* Folder. 6 pp. Illus. Describes *Speed Marvel Worker.*
3452. *Bench Jointers.* Folder. 4 pp. Illus. Presents Speed Marvel 4" and 6" jointers.
3453. *Beaver.* Folder. 4 pp. Illus.

Huther Bros., Saw Mfg. Co., Rochester, N. Y.
3462. *Huther Catalog.* No. 38. Illus. Covers complete line.
3463. *Huther Pocket Size Catalog.* No. 43. 100 pp. Illus. Describes line of dado heads, milling saws, etc.

Kennedy, Ralph, 117 N. 7th St., Philadelphia, Pa.
3621. *The Kennedy Utility Saw.* Descriptive literature.

Kurnau Machine Co., Gulow and Vendalia Sts., Cincinnati, O.
3731. *Upright Hollow Chisel Mortiser.* Data and description.

Markwell Mfg. Co., 176 Franklin St., New York.
3941. *Markwell Catalog.* 33 pp. Illus. Describes various appliances for the sash and screen maker.

Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.
3961. *Master Woodworker.* 18 pp. Describes model No. 7.

Parks Ball Bearing Machine Co., 1540-46 Knowlton St., Cincinnati, O.
4261. *Parks Woodworking Machines.* Catalog E. 42 pp. Illus.
4262. *Cabinet Shop Special.* Bulletin. No. 7. 6 pp. Illus.
4263. *Contractors' Special Swing Cut-off Saw.* Bulletin. 4 pp.
4264. *Planing Mill Special.* Bulletin. C-85. 6 pp. Illus.

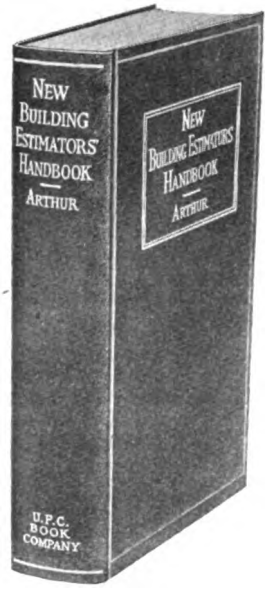
Sheldon Mfg. Co., Inc., Box 25, Nehawka, Neb.
4563. *Four Leaflets and Folders.* Illus. Describe their *Model A* portable gas engine, saw rig and *Model B* portable electric.

Sidney Machine Tool Co., Sidney, O.
4581. *Famous Woodworking Machinery.* Catalog, pocket size.
4582. *Booklet.* 12 pp. Illus. Gives additional information.

Tannewitz Works, Grand Rapids, Mich.
4741. *Variety Saw Benches.* Bulletin. Describes a machine for all classes of work.
4742. *Sawing Machinery.* Complete catalog. Illus. Comprises bulletins of many types of machines, with specifications.

Wallace & Co., J. D., 134-158 S. California Ave., Chicago.
4891. *Wallace Bench Machines.* Illus. Loose Leaf Catalog. 22 pp.
4892. *Wallace Machines for Working Wood.* Illus. Catalog.
4893. *The Woodworking Pictorial.* A Bulletin of suggestions.

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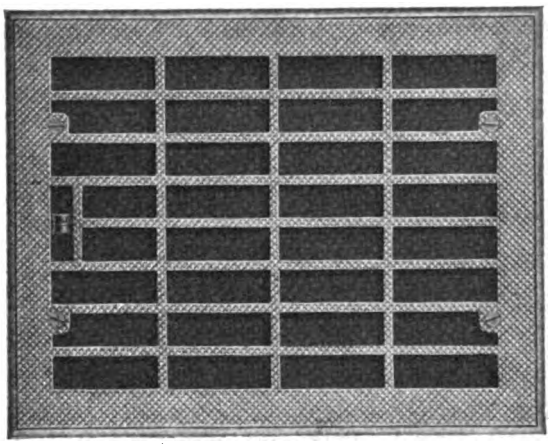
Contents by Chapters

1. Measurements of Building Work. 2. The Quality System of Measuring. 3. Speed and How Affected by (a) Climate; (b) Hand vs. Machine Labor. 4. Excavation and Filling. 5. Piling and Under-pinning. 6. Concrete Work. 7. Reinforced Concrete. 8. Stone, Gravel, Marble and Terra Cotta. 9. Brickwork. 10. Cement Stone. 11. Structural Iron and Steel. 12. Tile and Gypsum Fireproofing. 13. Steel Sash and Steel Buildings. 14. Plaster. 15. Carpenter and Joiner Work. 16. Millwork. 17. Glass. 18. Roofing. 19. Sheet Metal Work. 20. Hardware. 21. Painting. 22. Plumbing and Gas Fitting. 23. Heating. 24. Electric and Conduit Work. 25. Tiling. 26. Asbestos Materials. 27. Dairy Barns. 28. Silos and Tanks. 29. Municipal Work. 30. Weights and Measures.

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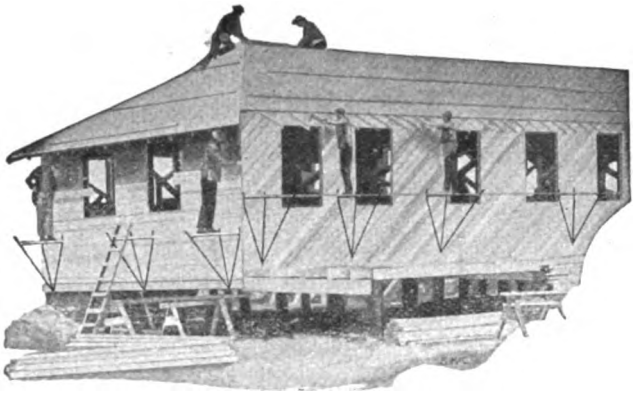
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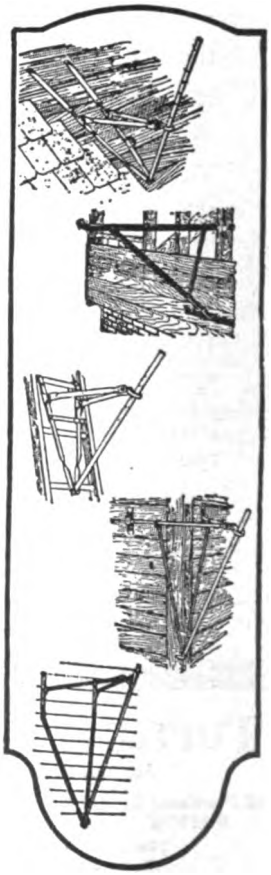
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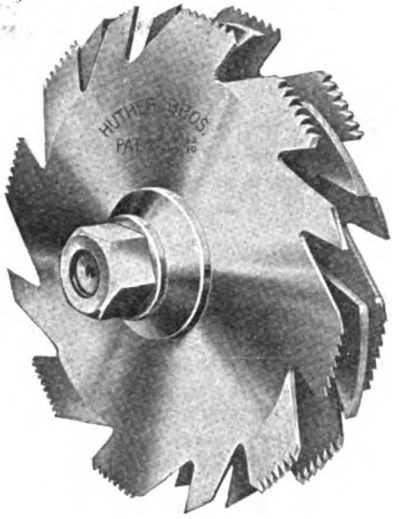
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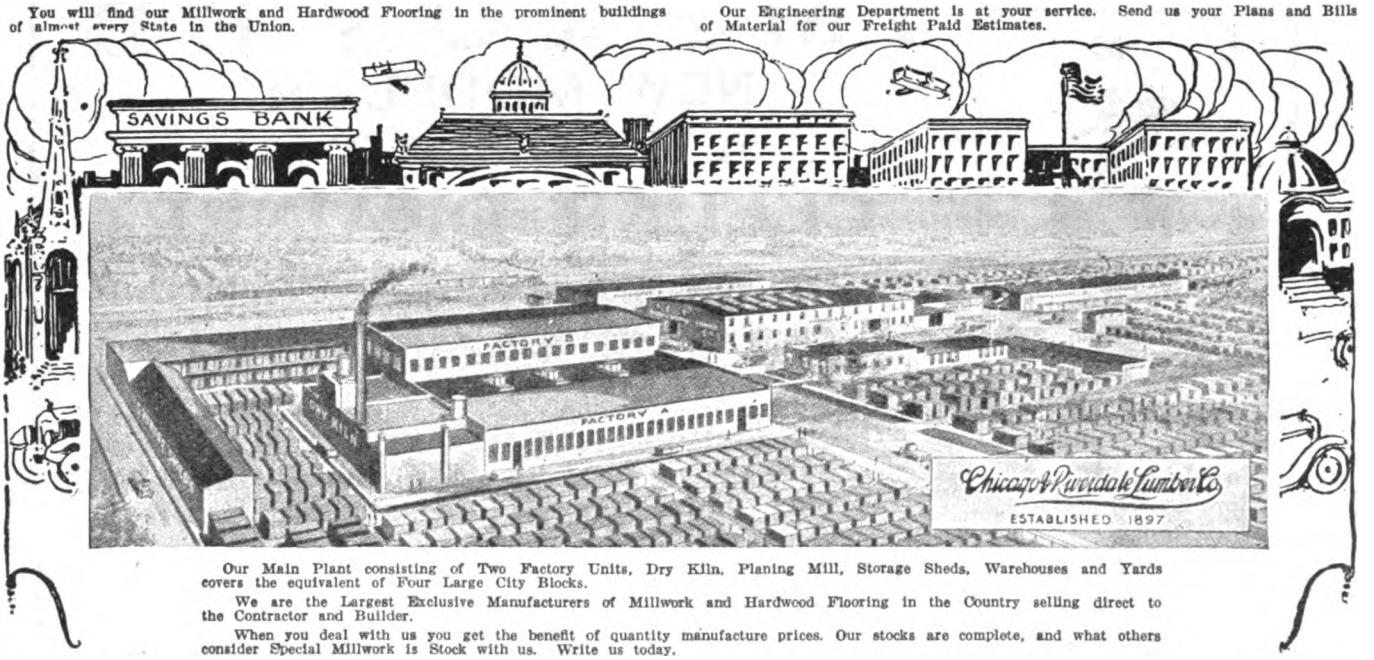
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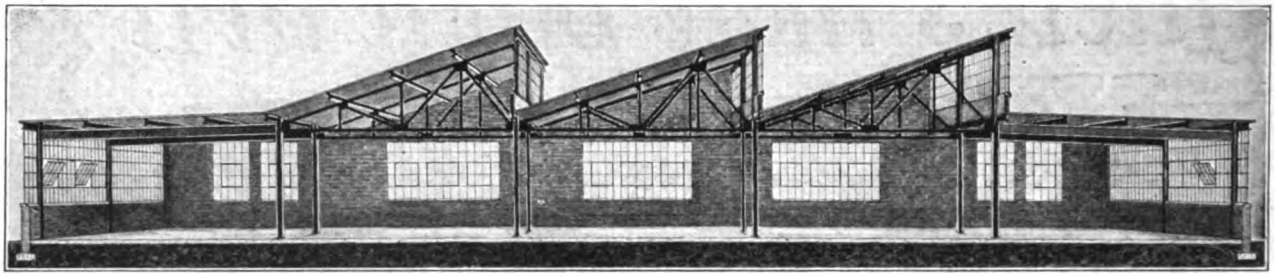
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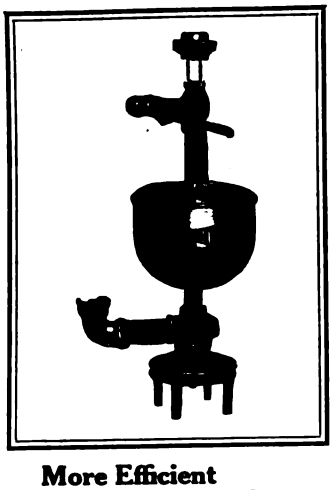
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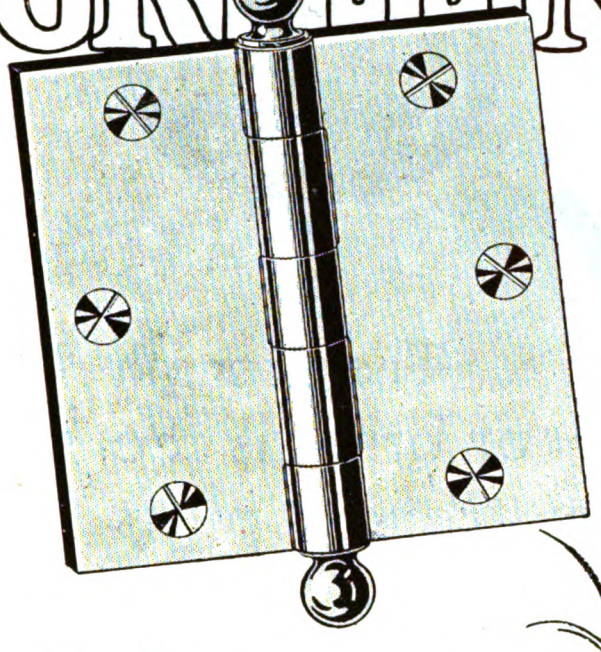
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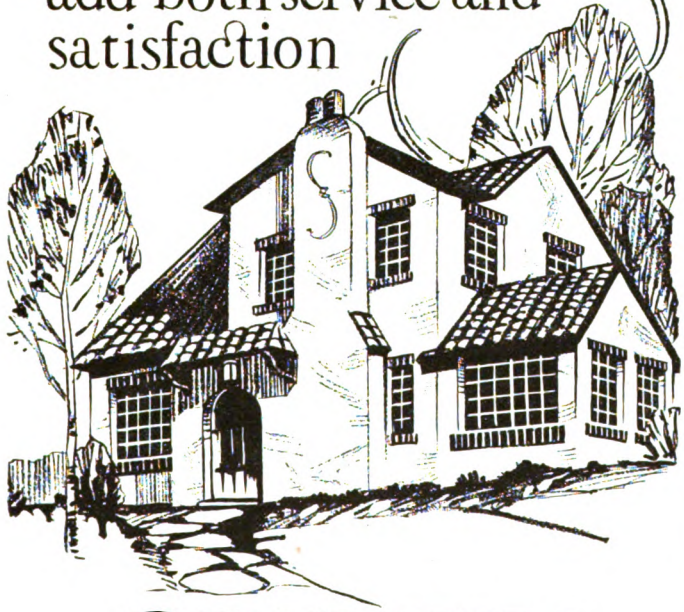
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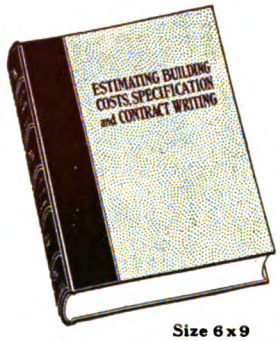
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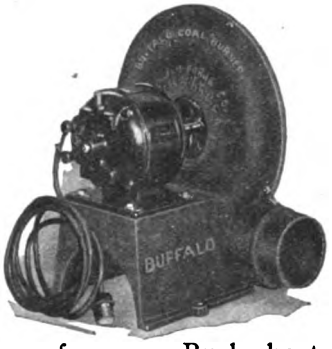
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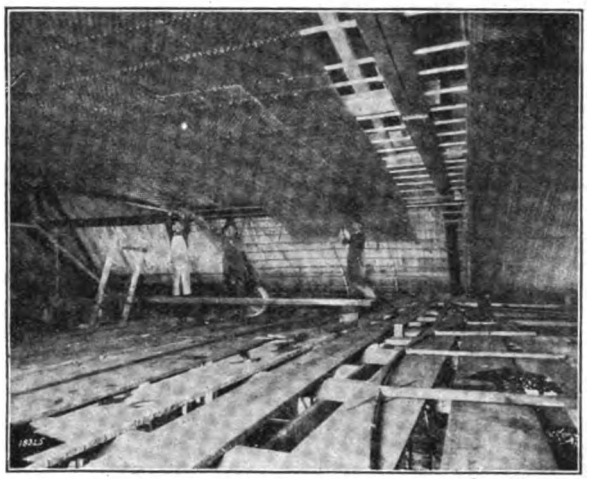
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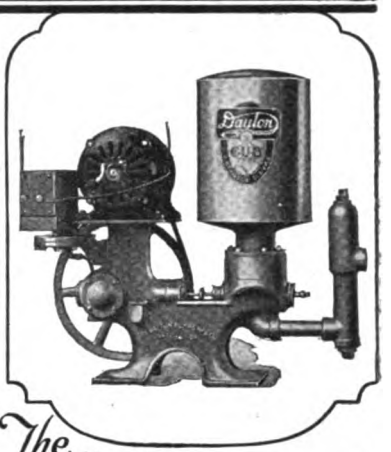
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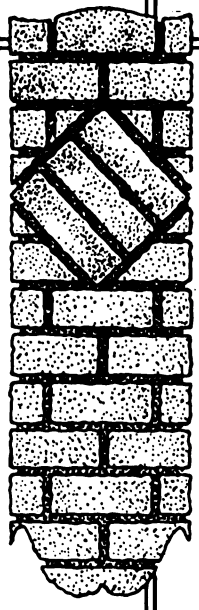
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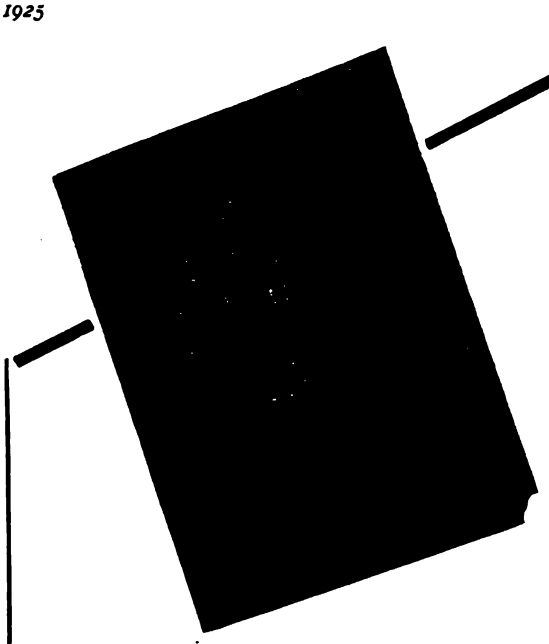
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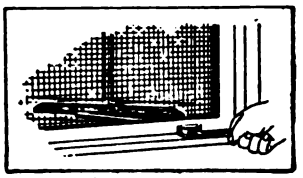
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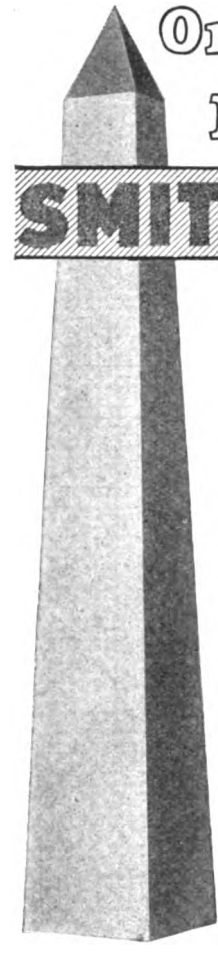
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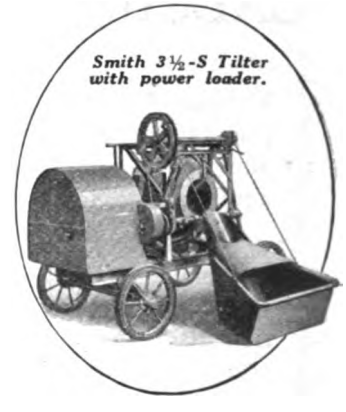
One Day's Work for this Little Mixer

SMITH MIXERS

The Smith Mixer illustrated here is the 3½-S (half bag) size—capable of from 35 to 50 cu. yds. per day. It can pour an obelisk as shown, 7 feet each way at the base and more than 30 feet high, in a day's time—without being called upon for more than its ordinary speed and capacity.

This half-bag mixer is one of the smaller models of the famous line of Smith Tilters. Its size does not indicate cheapness, however, for in every detail of design and construction it duplicates the **superior workmanship for which the larger models are noted. And it possesses the same quality mixing ability, the same speedy discharge and the same economy of operation and maintenance.**

It is ideal for the small job and repair contractor—or for the big contractor who has small jobs to finish up. It has easy portability, is easy to operate, and is a real profit builder for its owner.



Smith 3½-S Tilter with power loader.

Send for complete information about this and other Smith Models today.

Smith Tilting Mixers are made in the following sizes 2½, 3½, 5, 7, 10, 14, 21, 28, 40, 56 and 112 cu. ft. per batch; Smith Non-Tilting Mixers: 7, 14, 21 and 28 cu. ft. per batch; Smith Paving Mixers: 21-E.

The T. L. Smith Company

1028 32nd Street, Milwaukee, Wis.

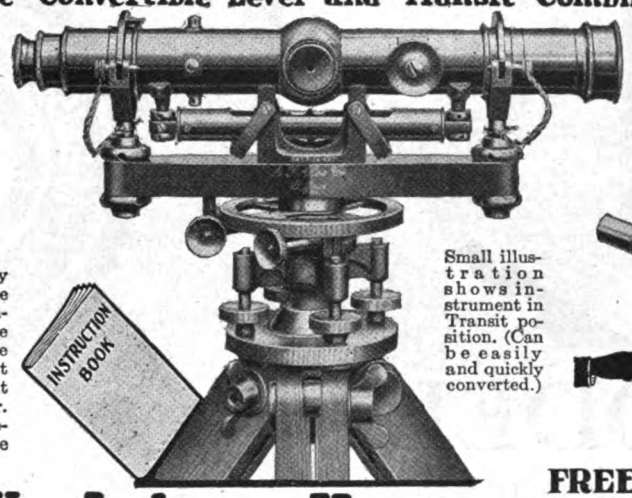
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Level and Plumb Better-Quicker—Own Your Own

$5.00 Brings it to you

Aloe Convertible Level and Transit Combined



Small illustration shows instrument in Transit position. (Can be easily and quickly converted.)



FREE TRIAL

Increases Your Income

This instrument will add immeasurably to your efficiency and put you in the big builder class—will do more to increase your business, income and prestige than any investment you ever made. The Aloe Convertible Level is the world's best—a combination of both level and transit and quickly converted to the use of either. Absolutely accurate—satisfies the requirements of the most exacting—yet so simple that anyone can use it.

You Learn To Use It in an Hour

Complete Instructions

No technical knowledge necessary. No previous experience needed. With our simple and complete instruction book, included free with every level, you can immediately put the instrument to work. It is a level and transit combined—takes sights either above or below the horizontal. You can use it for leveling foundations, walls, piers, streets, walks or curbings—to run straight lines for ditches or drains—boundary lines for fences or trees—surveying lots and fields—plumbing walls, shafts, trestles, posts and pillars.

Easy Monthly Payments

Just $5.00 brings it to you—for a free trial. If perfectly satisfied, pay the balance in small monthly payments. The instrument will be sent at once and from the first day it will be working for you—paying for itself by saving you the cost of borrowing an instrument or the fees you have been paying other men for this work.

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Our free book—"Be A Bigger Builder"—tells you how to increase your income—how to get the profitable jobs and become a bigger man in your community. Write for this book today.

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FREE BOOK



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Without obligation, send me your **FREE** book, "Be A Bigger Builder". Also full particulars about the Aloe Convertible Level and details of your easy payment plan.

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to Read Pages

86 and 87

in this Issue

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—more desirable because of being strictly modern.

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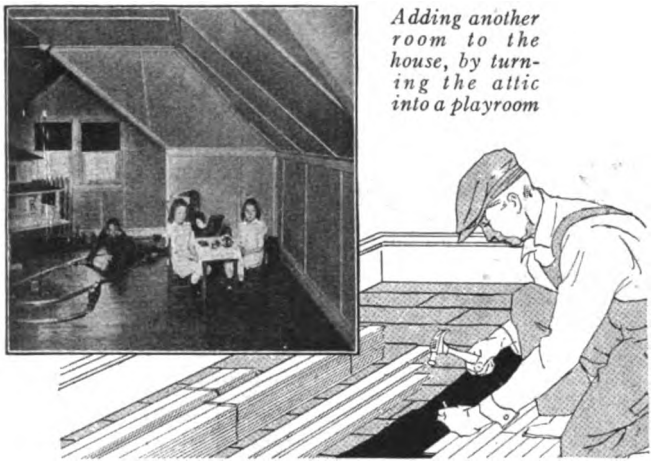
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Adding another room to the house, by turning the attic into a playroom

REMODEL

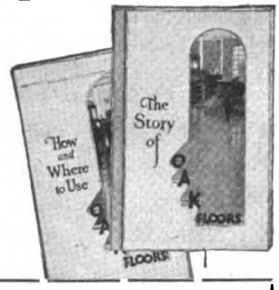
Give the children an attractive indoor place to play. The attic is ideal; they can romp to their hearts' content, without disturbing the household. Oak Flooring, laid over the present unsightly floor, helps to make a real room out of the attic, and keeps it clean and sanitary besides.

Make More Money

In addition to the opportunity that every unimproved attic affords, you can make money by interesting your friends and neighbors in "toning up" the home, by laying Oak Floors in every room that has old, worn, ordinary floors. Quote by the room, not by the thousand feet, and prove how inexpensive the remodeling job will be. You can get in touch with a local Oak Flooring dealer, get samples and prices, and figure yourself the cost of laying and finishing. Then call on prospects.

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We will supply you with free illustrated literature to show prospects. Also technical booklets for your use, showing how to figure accurately the amount of flooring required on a job, with grading rules, standard measurements, proper handling, laying and nailing, etc., etc.



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Please send me "The Story of Oak Floors," and "How and Where to Use Oak Floors."

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Residence of Chas. R. McCormick, Menlo Park, Cal. Exterior of Redwood. Lewis P. Hobart, Architect, San Francisco.

Redwood

gives permanent beauty to fine homes

THE Spanish type of California architecture represents a distinct achievement in the building of fine homes. By the use of clear Redwood boards, with the edges covered with Redwood battens, as in the McCormick residence illustrated, the general appearance of a stone or plaster exterior is faithfully carried out, at the same time securing the beauty, economy and long life of Redwood.

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To Builders and Architects we will gladly send free samples of Redwood siding, our "Construction Digest", which describes and illustrates the use of Redwood in building construction; and our broadside describing the new book, "Redwood Home Plans", which contains 22 prize plans for moderate size, moderate cost houses of Redwood.

The Pacific Lumber Co.
Redwood

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This beautiful home at Cleveland Heights, Cleveland, Ohio, owned by Harry Bayer, has a WEATHERBEST Thatched Effect Stained Shingle Roof in a dark brownish red. Frederick F. Hodges, Architect. Charles L. DeVold, Contractor.

For homes new or renewed

the finest effects are WEATHERBEST effects

In spite of the aristocratic distinctiveness which they lend to the thatch roofs of the most exclusive homes there is nothing snobbish about WEATHERBEST Stained Shingles. They are equally at home when given the task of bringing modern freshness and beauty to the dingy frame cottage so much in need of remodeling.

Making the new home a pride to owner and builder alike—or making the old home new—in either case WEATHERBEST Stained Shingles do the job well and at moderate cost. And the strictly edge grain of WEATHERBEST continues to save money as long as the home lasts. It resists warping and curling. It helps make the colors last. It preserves the air of QUALITY. Mail the coupon for color samples and literature.

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Please send set of large samples showing WEATHERBEST colors on red cedar—also your books on Thatch Roof Construction, on Remodeling, and on cost of WEATHERBEST Stained Shingles for sidewalls compared with clapboards.

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BY CAREFULLY following tested fireplace construction plans and correctly installing fireplace equipment that has been proven successful for many years, you can build a fireplace that will please your most critical customer.

The Donley Book of Fireplaces contains many fireplace designs, construction photographs and construction plans for building successful fireplaces. It shows the Donley Damper with its smooth, metal throat that assures smoke and gases going up the chimney.

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DONLEY DEVICES
Complete the Home



Greendale Face Brick

for architectural efforts of all kinds

IN no type of building is a greater measure of the builder's skill called for than in the church -- perpetual monument to mankind's faith. In such buildings you can always rely on Greendales to provide the unusual beauty, charm and appropriateness required.

The Sacred Heart Church, Columbus, Ohio, shown above, was erected in 1922-23 of Greendale brick.

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serves the interests of builder as well as client by permitting higher grade work and a more lasting finish. It means better fitting, more enduring trim, doors, paneling and floors—*plus* a reputation for good building.



Northern **birch** assures all-round satisfaction for large or small job. It works up with but little waste, permits fine workmanship, stays in place, and stands hard use, as well as abuse, on account of its practically mar-proof hardness.

It provides a wonderfully smooth base for an enameled surface. It takes on a waxed, stained or varnished finish to perfection. All color variations in the wood blend to an even tone under stain.

Write us your experience and ask us particulars. We are here to help you in every way.

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229 F. R. A. Building Oshkosh, Wisconsin

"Beautiful Birch for Beautiful Woodwork"



A Shower is a Selling Point

A Kenney Shower a Salesman

Time was when a shower was a strong selling argument—just a plain, ordinary overhead shower.

Today the ordinary shower is taken for granted. It has lost its great value of "uniqueness." It has lost the strongest part of its appeal to the buying and renting public. The public no longer pass the palm to the builder for his thoughtfulness in providing an ordinary shower.

Now, a prospective home buyer or renter finds bathrooms equipped with Kenney Needle Showers. Here is something different—something unique—something infinitely better than anything he is accustomed to seeing.

He is lured by the fact that it is a body needle shower. He is interested and attracted by the fact that it requires no curtains. He has a lively recollection of the damp, clammy, and most times unclean curtain; especially when he is the second or third to use the shower that morning!

Any equipment in the home, possessing the virtues of uniqueness and great utility is a silent salesman working with you to close the transaction.

You should have all the details about the several models of Kenney Showers; the prices too. Fill in the coupon below, mail it today, and you will receive that information.



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Please send me information on Kenney Body Needle Showers.

For ☐ Residence ☐ Apartments ☐ Hotel ☐ Club or Institution

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Makes Any Cut —Does Any Finishing

It makes no difference whether it's common ordinary sawing or the handling of some difficult operation, the new improved Famous Jr. "30" can handle it. In fact, this woodworker "starts" where most other machines stop. With a few extra attachments over thirty different operations can easily be performed on the Famous Jr. "30."

It is the answer to "hurry up" jobs and "short cut" requirements. As many as five operations can be performed at one time and on this machine, or any one operation can be performed independently of the others, because each unit is separately controlled—no short belts, cross belts nor idlers.

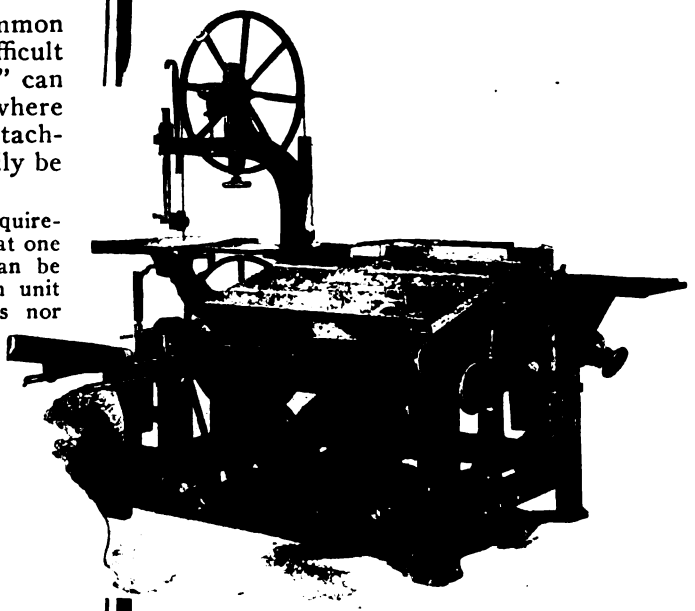
Write us—today—for complete information on this new improved money-maker. Address Dept. 310.

The Sidney Machine Tool Co.
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New Improved

FAMOUS

Jr. "30" *Woodworker*



Get Into the Floor Surfacing Business While the Field is Fresh

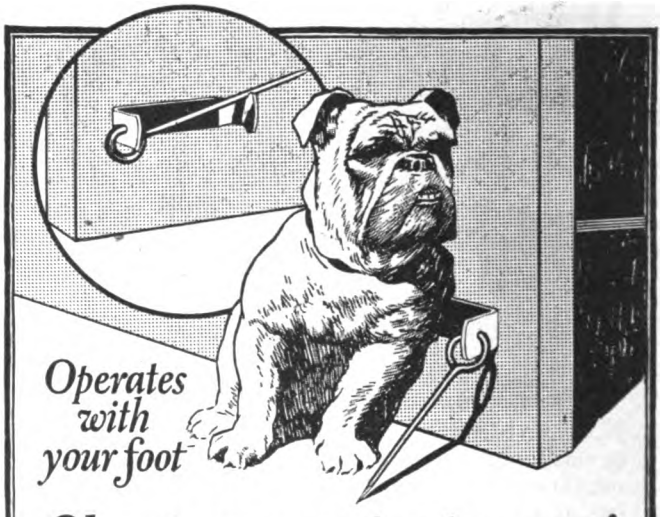
A CHANCE to have a business of your own and still retain your present position. Write today—Let us tell you how to get started in this Paying Business and how you can make good by following our method in working up your business. Free Trial. Part down—balance easy payments, which machine will earn for you. $40 to $50 a day easily earned with the AUTOMATIC—the result of 16 years mfg. experience. Will save the wages of 5 men and do work that will stand inspection against the light. SKF ball bearings, carefully protected from dust—Whitney Silent Chain—Roller Pressure Regulator—Force Feed Lubrication—Edge Roller Border Work Eliminated—Steel, not cast iron, construction—all dust taken up on forward operation with New Vacuum Nozzle—all working parts enclosed—2HP Alternating Motor on 12 inch machine.

The Little Automatic Surfacing Machine (one table) is a wonder for removing varnish from desk tops, counters, etc., or for all sorts of new work.

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42-44 Jackson Street, Dept. X WAUKEGAN, ILL.







Cheap, convenient, sure!

Door Dogs

Hold swinging doors open

Richards-Wilcox Mfg. Co.
"A Hanger for any Door that Slides."
AURORA, ILLINOIS, U.S.A.
Branches in important centers

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See page 224 this issue

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Bovee's Horizontal Wood and Coal Furnace

Established 1886

RELIABLE, DURABLE AND ECONOMICAL

Manufactured in all sizes, having 20-inch to 36-inch Fire Pots. Combustion chamber more than double the size of the average furnace.

Save 40% in Fuel

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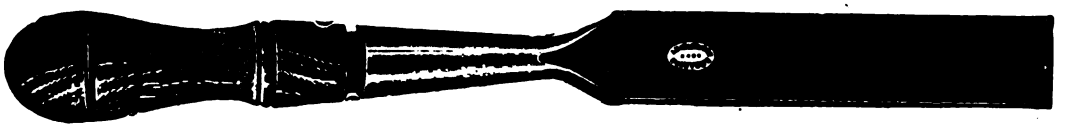
Very Easy to Install. No Tinner Required. Write for Full Information and Prices.



Compound Radiator Furnace

BOVEE FURNACE WORKS, 160 West 8th Street, Waterloo, Iowa

A Life Time of Service





from D. R. Barton Tools

Reproductions of actual photographs show two chisels—one new—the other after forty years' hard usage, and still in daily service.

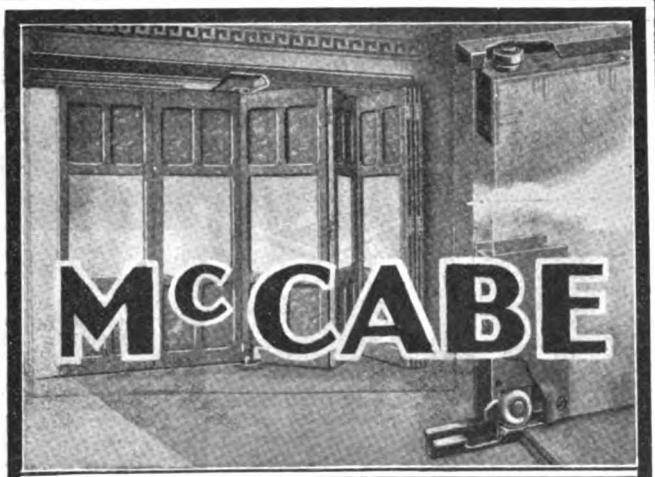
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If your dealer can't supply you, we will. Write for free copy of the "Carpenter's Catalogue" and "True Stories."

GENUINE ONLY WHEN STAMPED D. R. BARTON

Mack Tool Co., Inc., Rochester, N.Y.

Machine Knives for planer, jointer and paper. Edged tools for manual training, pattern making, carving, and carpenter.



Folding Partition Hardware

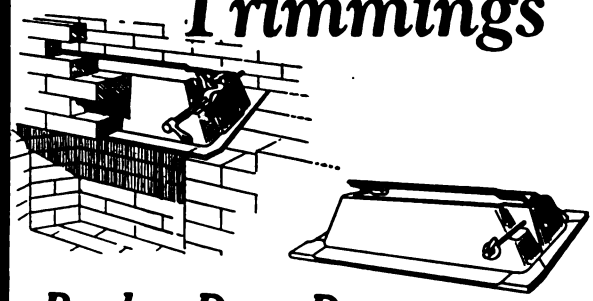
The partitions can be arranged as you wish them with any number of doors. All doors are hinged together and are sliding back into position as they are folded to the jamb in pairs. In this way the entire partition is folded quickly and easily with one half the hardware that it takes to operate each two doors independently.

A ball bearing swivel roller is used at the bottom of every other door and a ball bearing guide at the top. Securely supported top and bottom, the doors slide smoothly and easily and there is no binding or rattling.

There is a McCabe Hanger for every folding door requirement and detailed information will be gladly furnished to you.

The McCabe Hanger Manufacturing Co.
429 West 25th Street — New York City

Fireplace Trimmings

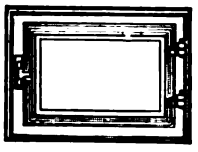


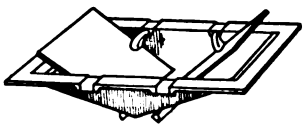
Peerless Dome Dampers insure perfect fireplaces

You builders and contractors who want to satisfy your customers—here is the way to eliminate smoky fireplaces: A dome damper will prevent smoke and smoke discoloration, give control over the fire, save fuel, prevent soot falling into fireplace, prevent waste of heat, eliminate haphazard work in building fireplaces and insure a perfect draft at all times.

We carry a complete stock of dome dampers, grates, ash doors and traps, and all fireplace trimmings. Immediate shipments! Send for our big free catalog.

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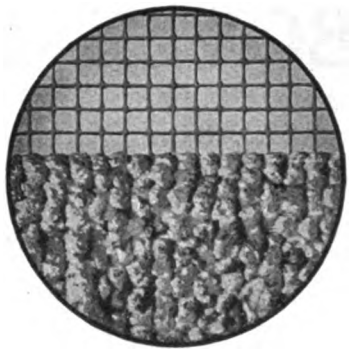
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No. 2827

Map Measure, watch pattern. With device to set at zero by pressing knob shown in illustration. Large circle records inches and ½ inches. Second circle records feet up to ten feet. Beyond ten feet, the number of feet up to 100 feet is recorded on the third circle. Useful for Architects, Engineers and Contractors for taking dimensions from plans. The measurements are recorded full size and then simply multiplied by the scale in which the drawing is made. Very accurate. Postpaid, each, $4.50 net.

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341-347 Fifth Avenue New York City



Clinton Wire Lath

Standard Since 1856

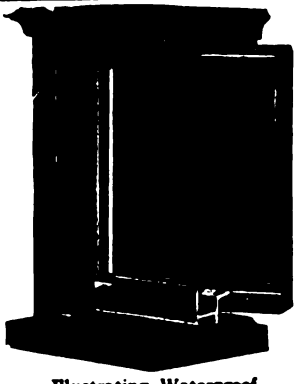
Adapted to all kinds of plain and ornamental plastering.

A glance at the key side of a wall plastered on Clinton Wire Lath will show the perfect manner in which the plaster surrounds the lath. The clinch of the back plaster will so cover every wire that it is difficult to detect a single strand showing in this perfect key.

Complete information upon request.

Wickwire Spencer Steel Company
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ALLMETAL WEATHERSTRIPS



Illustrating Waterproof Casement Strip

Your First Installation Contractors Builders

will prove, conclusively, why you should make this your business—there is a greater demand for it every year.

RIGHT NOW IS THE BEST TIME TO START

Our service is prompt as all orders are filled and shipped within 24 hours after being received, assuring you of no delay in starting a job.

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ALLMETAL WEATHERSTRIP CO.
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The Improved SCHLUETER

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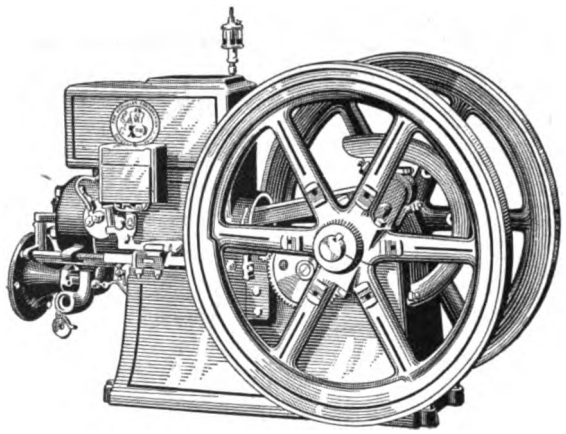
A Five Year Guarantee and a Five Day Free Trial offer absolutely protects the purchaser and makes owning a SCHLUETER easy for both large and small contractors. It will usually pay for itself with the profit on one large job.

Write for our proposition.

LINCOLN SCHLUETER
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Twice Tested—Fully Guaranteed

THE HERCULES ENGINE is perfectly designed. It is accurately constructed of materials too good to be bettered. And to make absolutely sure that the HERCULES ENGINE you get will stand up under hard service and prove by actual performance that it is a better engine than any other engine made, we put it into actual operation twice before it leaves the factory.

When you use a HERCULES ENGINE with its wonderful Wico Magneto, its perfectly balanced rotating parts, its reliable governing mechanism, you are sure to have plenty of power on the job every minute. More than 400,000 HERCULES ENGINES are in service.

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THE HERCULES CORPORATION
Engine Div., Evansville, Ind.

HERCULES ENGINES

KEYLOCK

BASE for STUCCO and PLASTER



Pat'd Jan. 1, '24
Other Patents Pending

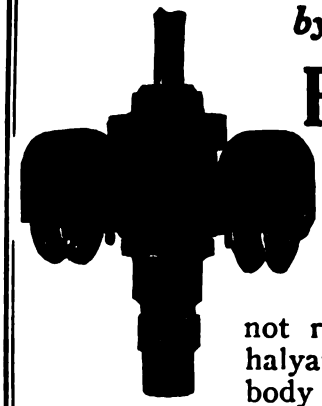
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1—It automatically breaks its own joints over studding. No cutting to offset necessary. Just roll it down. It'll fit.
2—KEYLOCK'S cut taken on the edge of the wood strips reinforces the clinch and effects a double dovetailed lock with the mortar.
3—KEYLOCK'S wood strips in addition to being embedded in the asphalt mastic are stapled and clinched, insuring proper spacing and safe handling.
4—KEYLOCK'S wood strips are all chemically treated to make them water resistant, eliminating warping—a permanent cause of failure.
5—With every roll is furnished the proper number, kind and size of nails for its application.
6—It is economical in both cost and application—is physically and structurally sound—an excellent base for stucco and plaster.

It is shipped in mixed cars with FLINT-ROCK ALL-MINERAL STUCCO, ARCHITEX FINISH and FLINT-ROCK Dashes, representing economy in your purchases.

The Flint Rock Stucco Co.
Dayton, Ohio

Good Poles Made Better by the "Poletube"



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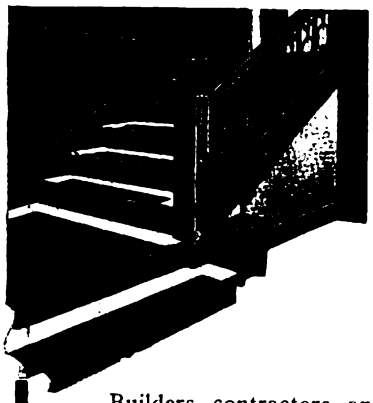
Indestructible. Prevents fouling; cannot rust fast or cut into halyards. 6½" galvanized body revolves on two sets of bronze ball bearings around cast steel king pin, capped with bronze hood. Double bronze 2½" sheaves on bronze roller bearings revolve on Tobin bronze pins. Gilt balls slip over ⅝" brass jacketted spire, driven into king pin. **Supplied with our poles only.**

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in the modern apartment and house kitchen is Kab-Range, the combined range and kitchen cabinet. This space and labor saving unit is both beautiful and practical, assists planning and aids selling. Surprisingly reasonable prices on models for any requirement. Write us.

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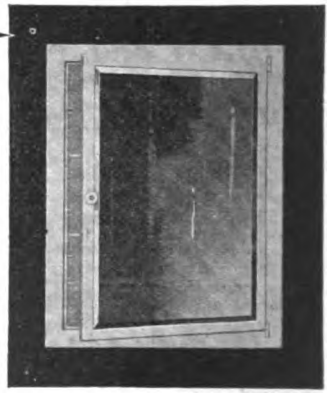
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Investigate! Our Complete Illustrated Catalog demonstrates why hundreds of builders are profiting thru "White Steel." Send for it NOW.

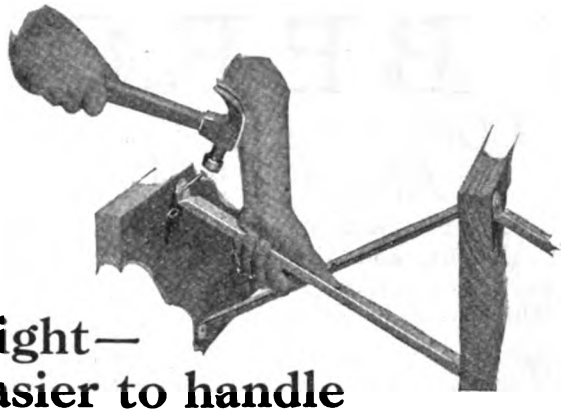
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easier to handle
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A REAL BUILDER'S MACHINE

Cuts any angle by pressing foot lever. Both hands free to hold stock. No motor to pull swinging frame. Locks at any position for ripping, grooving, etc.



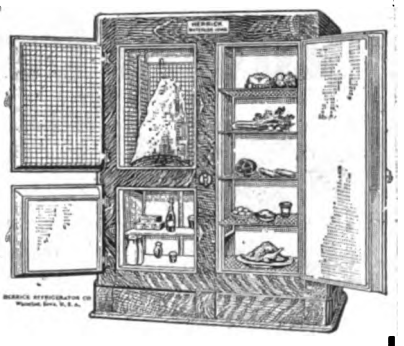
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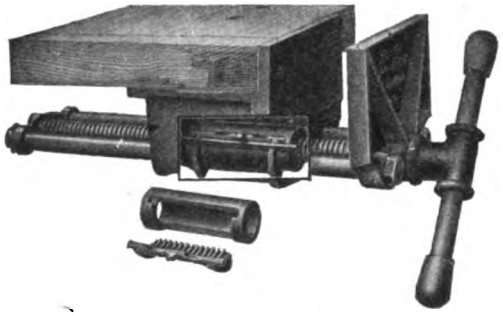
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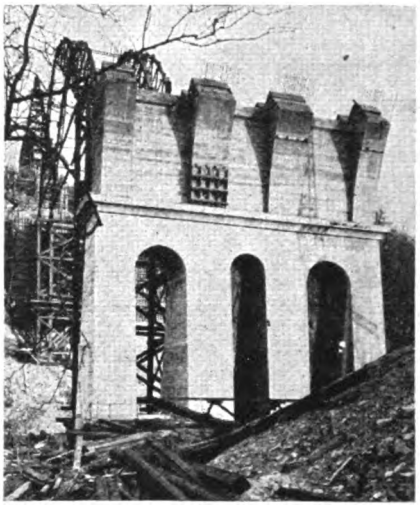
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Floor scraping by a gang of men on their hands and knees was all right in days when there was no other way to do it, but today

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is easier, quicker, cheaper, better; easier because it is done comparatively without effort; quicker because it equals in speed the work of six fast men; cheaper because it saves the wages of five or six men; better because it is without the imperfections of hand work—the "American Universal" surface is a perfect surface, you can't find a wave, a chatter mark or blemish in an acre of it. The

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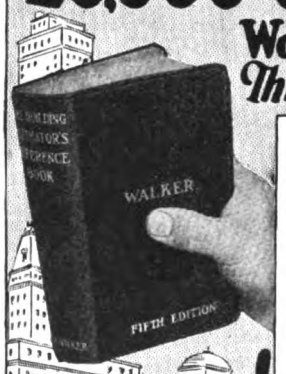
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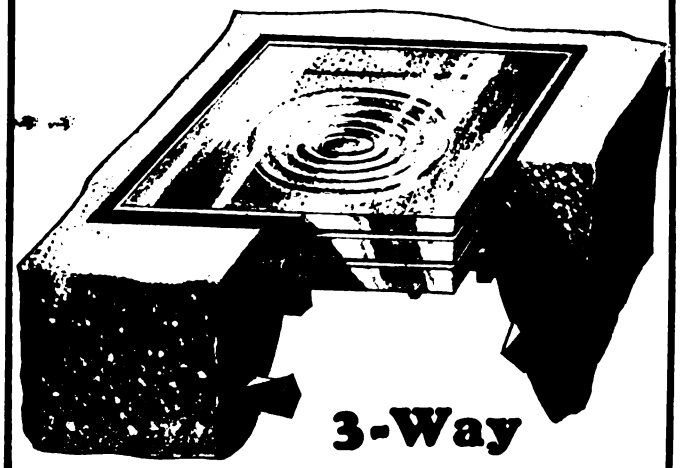
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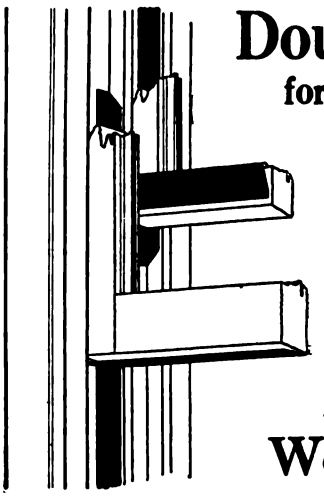
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For Five Years



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Armored Glass
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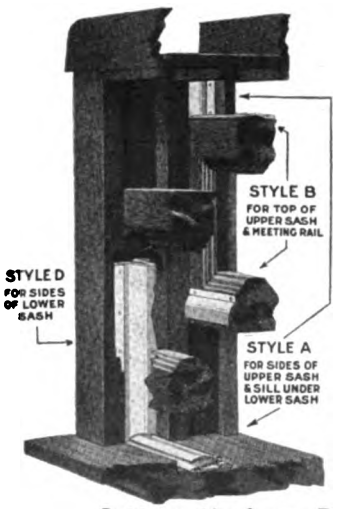
A. B. C. Weatherstrips are indorsed by architects as the most efficient, and because they can be installed without removing or grooving the sash, they are the lowest in cost. This makes a wonderful opportunity, and the best season is just ahead. A. B. C. Weatherstrips are made of spring bronze, and follow any expansion, shrinkage or warp of the sash; consequently they always fit snug without sticking the windows. Every home owner wants them. We don't merely give you the agency and wish you luck, but we show you how to get jobs as fast as you can handle them. $125 covers your investment in weatherstripping material, and your share in an advertising plan that brings the business in your name. This proposition is open only to those who can satisfy us as to their workmanship and responsibility. It's the biggest thing in weatherstripping, and worth getting after at once.

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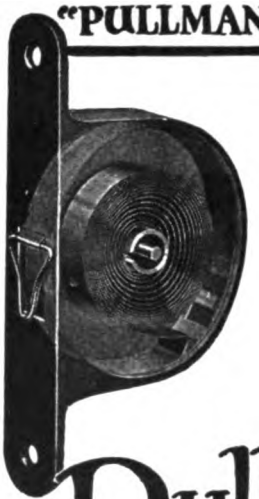
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It Pays For Itself

in faster, better and more economical mortises!

The highly efficient, new improved Champion Mortiser will cut your mortising costs 80% yet do ten times better work and more of it than any skilled carpenter with hammer and chisel.

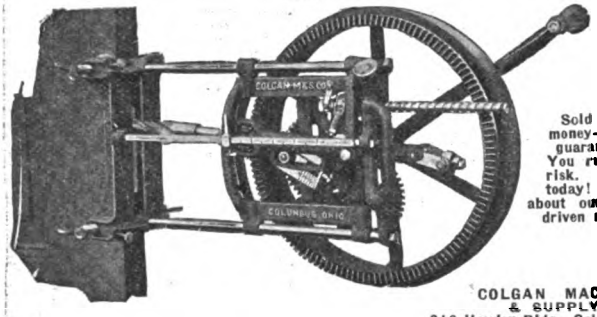
This has been proved thousands of times by carpenters, contractors and builders.

New Improved

Champion Mortiser

Cuts A Perfect Mortise in a Minute or Two

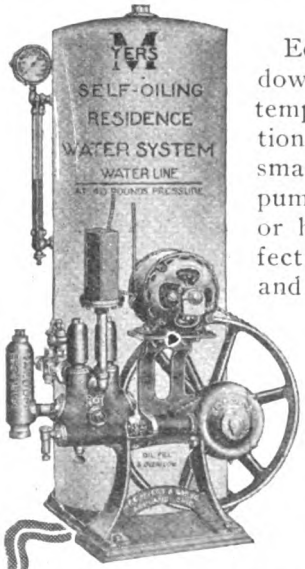
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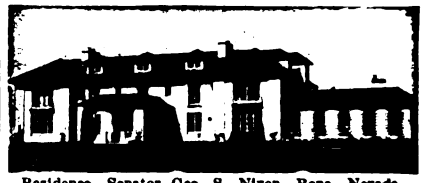


Fig. 157
Note the construction of patent interlocking Device used on Edwards Metal Shingles and Spanish Tile.



Fig. 367
Metal Spanish Tile for main part of roof.

Edwards "Queen Anne" Metal Shingles



Residence, Senator Geo. S. Nixon, Reno, Nevada. Edwards Metal Spanish Tile used on the building.

EDWARDS Metal Spanish Tile



It is wonderful what a remarkable transformation takes place when an "Edwards" Metal roof is properly applied to a house—all of the charm of the old Spanish Terra-Cotta Roofing Tile is preserved, even to the color.

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Edwards Metal Roofings made in various styles, to have the appearance of wood shingles, tile, slate, or any other roofing effect, and none of these fine artistic effects will cost any more than a plain, commonplace roof.

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When an Edwards Roof is laid, it is there to stay.

Send for our literature—it explains

The Edwards Mfg. Co.

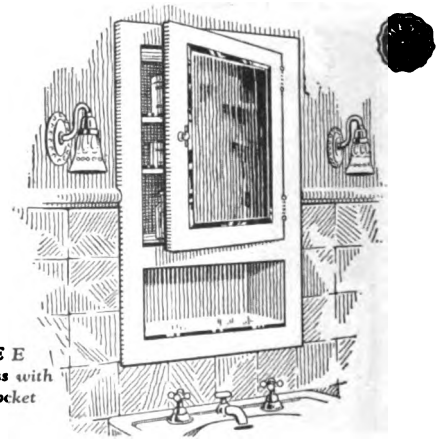
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HESS CABINETS and MIRRORS

Snow-White Steel



STYLE E to recess with open pocket below.

HESS Cabinets and Mirrors are built to the highest standard of workmanship and finish.

While cheaper goods are made there is nothing *equal to ours*, at the prices we ask. Seekers for *good* cabinets are invited to ask us to demonstrate this, by submitting samples for comparison.

See Sweet's Index; or write for illustrated booklet.

HESS WARMING & VENTILATING CO.
Makers of Hess *Welded Steel* Furnaces.
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White's Improved

NEW

"Duplex Level"

This newly patented combination Level-Transit met the instant approval of carpenters, millwrights and building trades mechanics. A handy lever makes the change from level to transit instantly, without lifting telescope from wyes. No jolting when change is made. No clamps or screws to adjust. 10 diameter lens system.

Index on Telescope insuring instant release from and to return to "level" position.

Three Point Bearing on Vertical Axis with spring tension giving constant and perfect contact of bearing surfaces.

Adjustable Telescope Standards, cast integral.

Three Point Bearing on Horizontal Circle with center spring action—perfect contact of horizontal bearing surface.

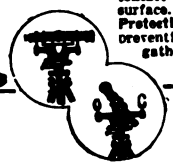
Protective Flange under circle preventing "gumming up" or gathering of dust.



"Duplex" in position for running lines and plumbing uprights.



Press lever and it is back in "level" position to a hair.



White's Improved Convertible Level

Used for years by leading builders, architects, contractors. Changed from level to transit in 10 seconds. Level bars and transit bars cast as one. No loose parts; simple and sturdy. 25 diameter lens system.

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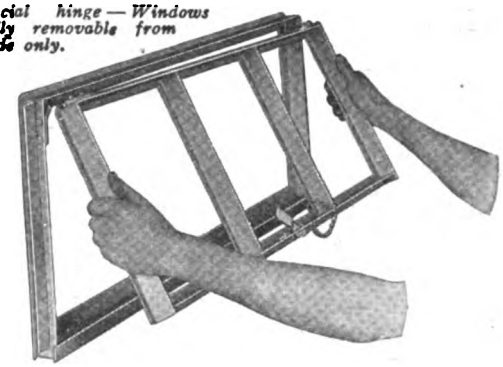
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Special hinge — Windows easily removable from inside only.



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Bayley construction makes for strength and easy installation—designed for all types of buildings. They cost no more than wood windows, yet they give 50% more light—are fireproof—do not warp or stick—resist burglar entrance and add to the appearance of the building.

Ideal for the modern garage.

Made in four standard sizes.

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THE WILLIAM BAYLEY COMPANY

126 North Street **Springfield, Ohio**

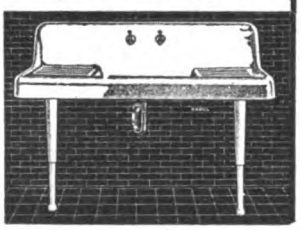
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Highest Grade Bath Room Outfits

Bath tub recess built in apron pattern, 5 feet long, 30 in. wide with shower, wash-down closet, highest grade porcelain tank, mahogany seat. Lavatory, 20x24 inches. Nickelplated fixtures with solid china index knobs, nickelplated trap and supply pipes, $138.50; without shower, $126.50.



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Double drain board apron sink, 62 in. long. All in one piece with enameled legs, faucets and traps, $54.75. Other sinks, $15.00 and up.

Save 20 to 40% on all plumbing articles.

All guaranteed plumbing and heating supplies. Get our catalog and prices before buying. Immediate shipment from our complete stock.

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Out-O-Site Beds give the maximum satisfaction and sleep-comfort. Their closets can be tucked away in any niche where there is space. The independence of these beds from their closets does away with the expensive construction work necessary for stationary disappearing beds.

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For Apartments an

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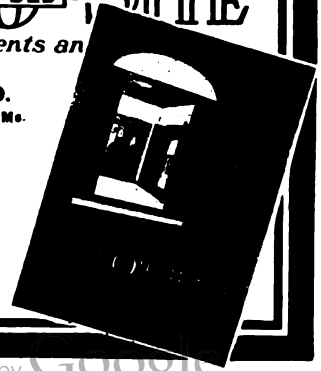
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A profitable line for carpenters, contractors, builders, or architects.

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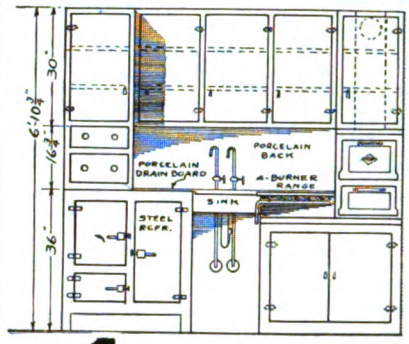
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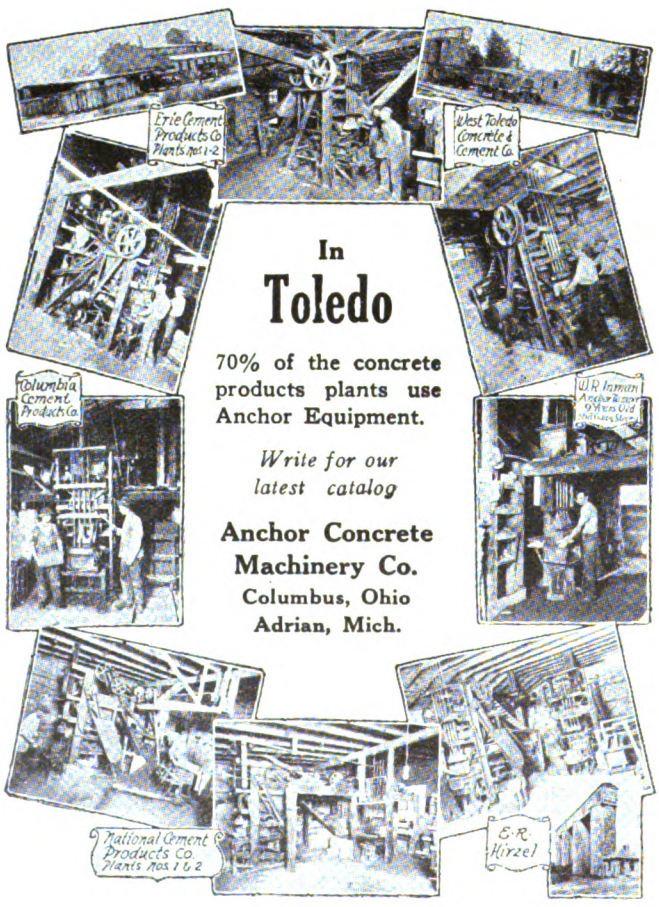
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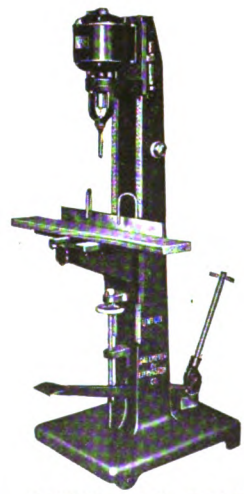
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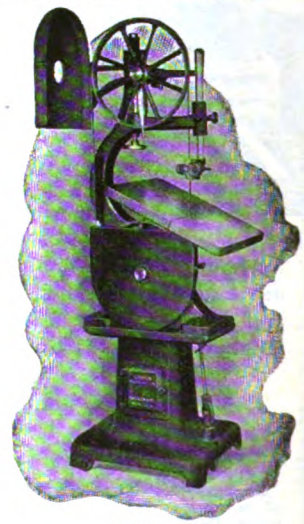
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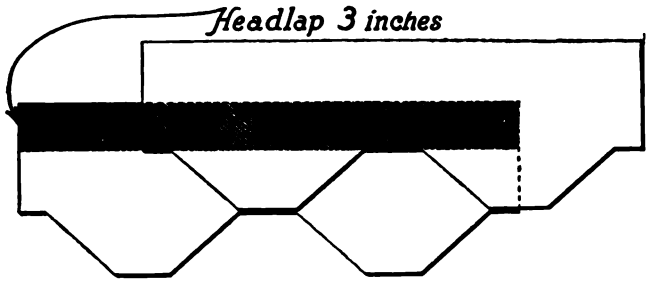
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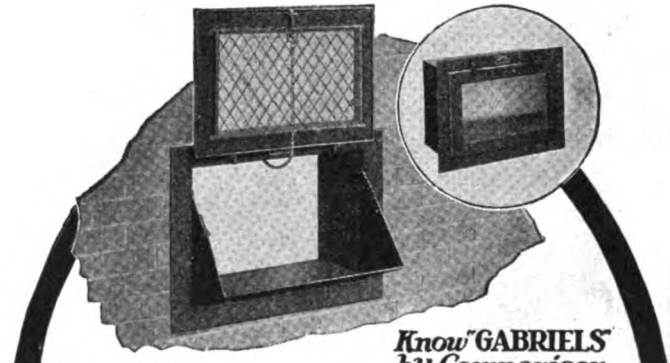
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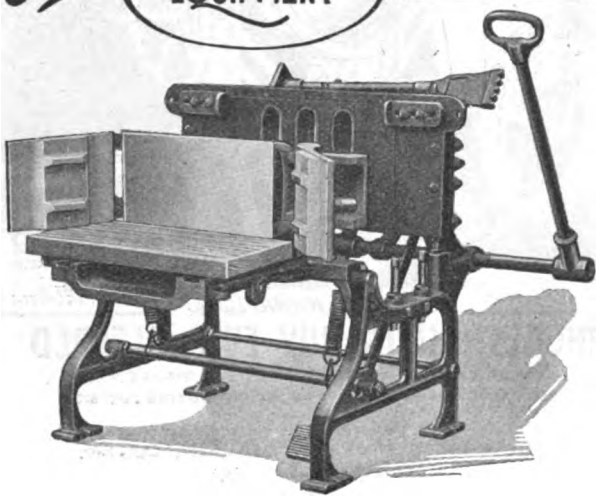
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It might hold just as much as a glass tumbler, but the small opening restricts the flow. It's the same with the fretwork on an ordinary register that restricts the free flow of air.



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Which of the two registers illustrated allows the freer flow?

It's the air that gets through that counts!

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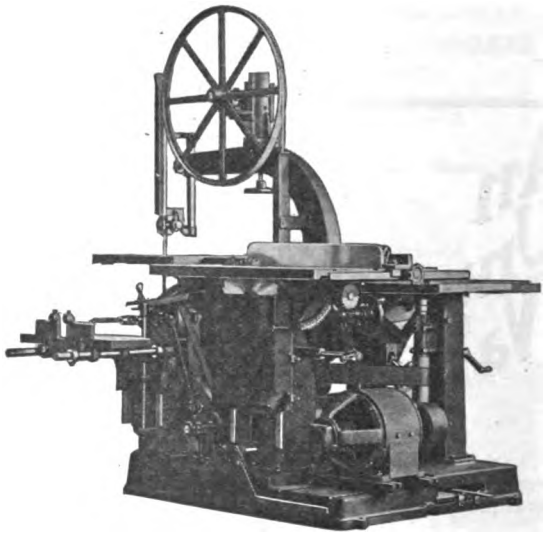
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Send today for special circular giving complete description.

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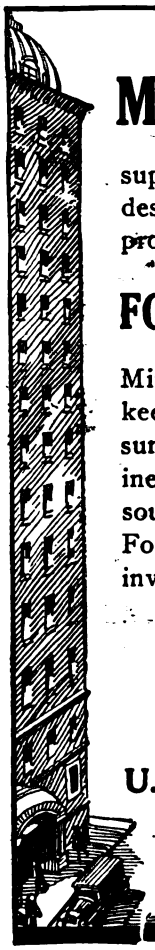
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provide for fresh air in every part of a building at all times without a thought as to their maintenance or regulation because they are constructed so as to take the utmost advantage of the natural laws of air movement. There are no moving parts, there is no upkeep cost and satisfaction is assured.

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The "Giant-Line" No. 25 is a real Builder's Hoist, having a straight pull capacity of 2500 pounds at 150 feet per minute. Power required, 8 to 10-HP.

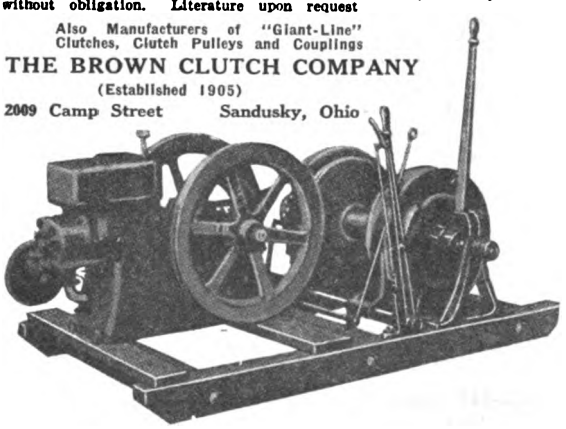
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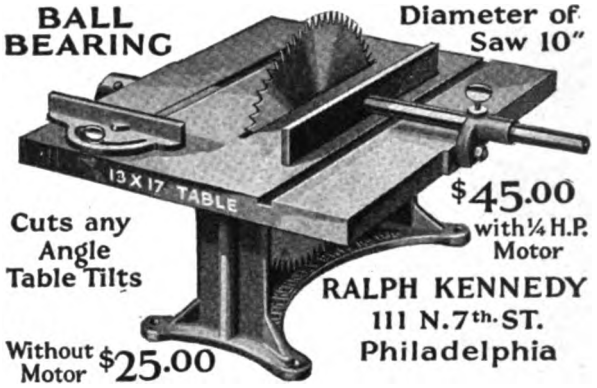
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The Kennedy Utility Saw is used with economy and satisfaction by

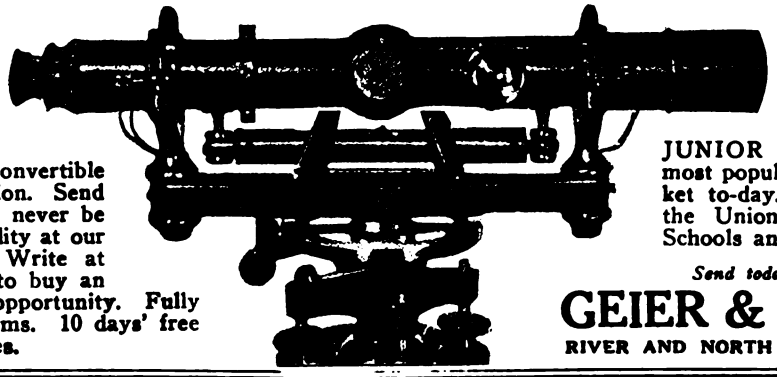
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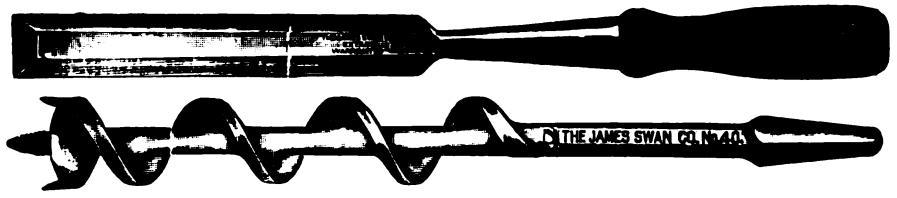
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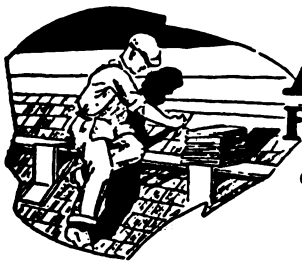


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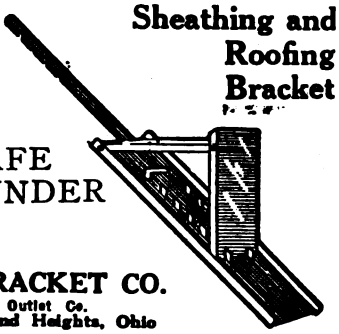
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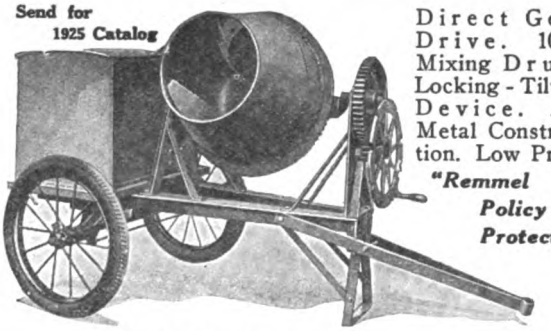
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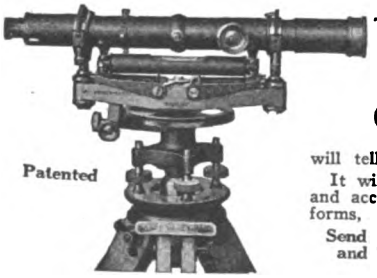
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(*Russet-brown Green Red Blue-black*)

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SCREENING a house with Jersey Copper Insect Screen Cloth is a boost for your workmanship. Jersey cannot rust because it is copper 99.8% pure. A special Roebling process gives it tensile strength and stiffness comparable to that of steel.

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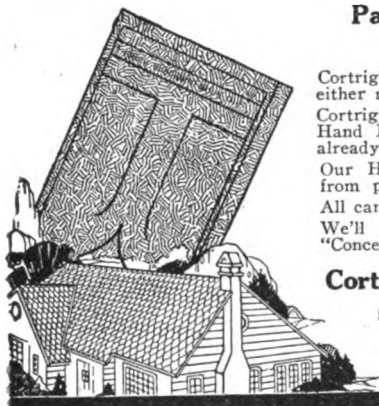
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All can be had in four patterns.

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CORTRIGHT METAL SHINGLES

For CONCRETE MIXERS

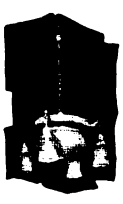
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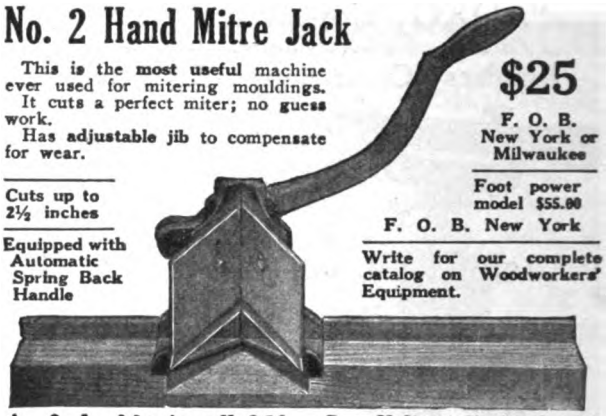
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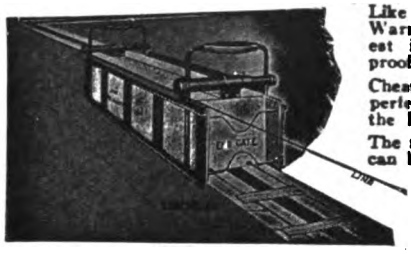
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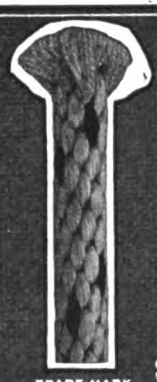
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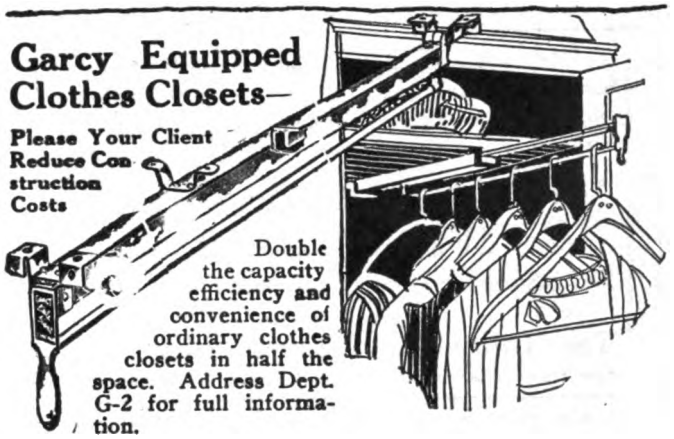
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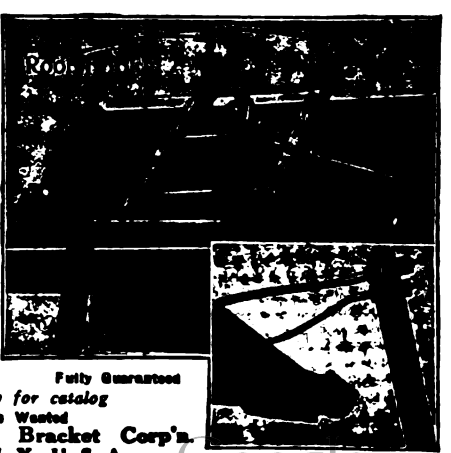
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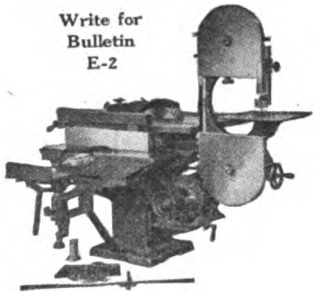
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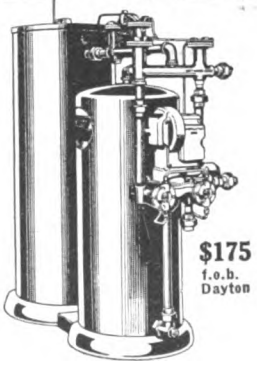
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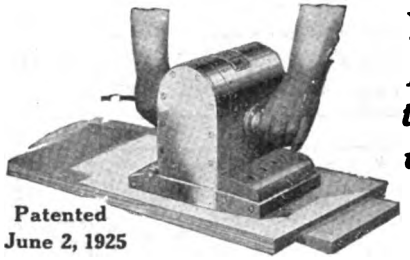
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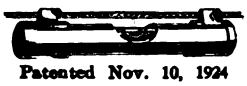
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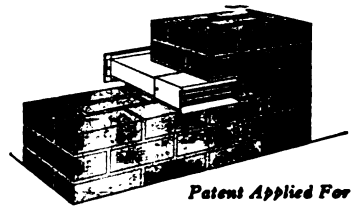
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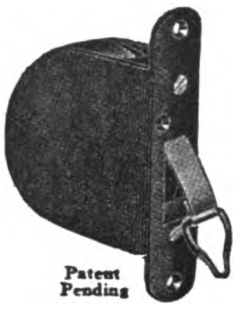


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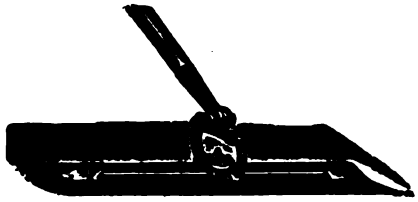
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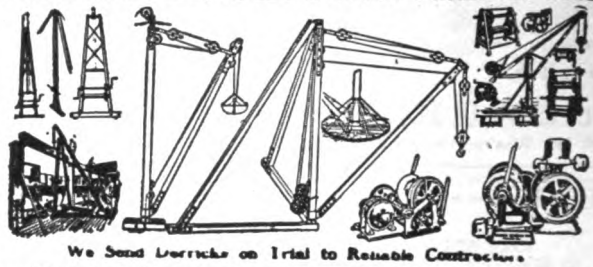
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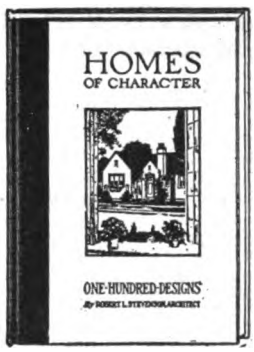
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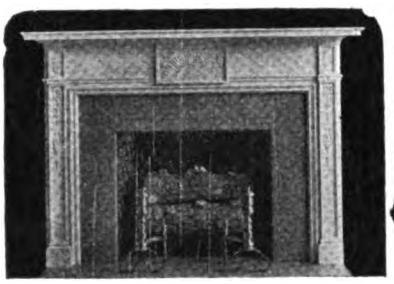
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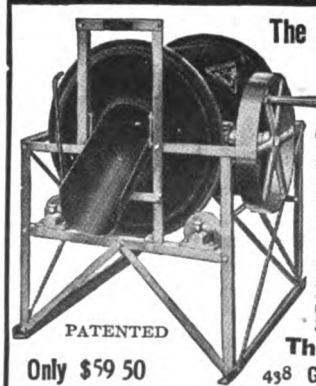
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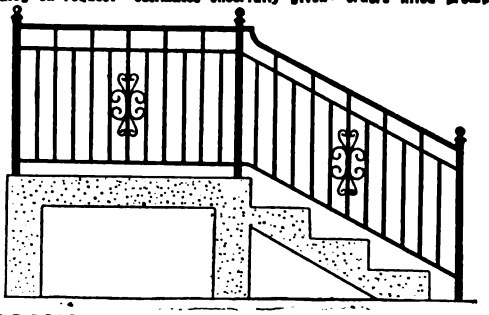
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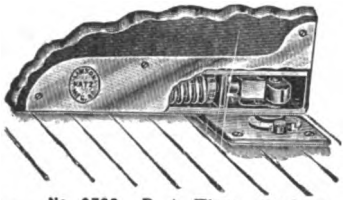
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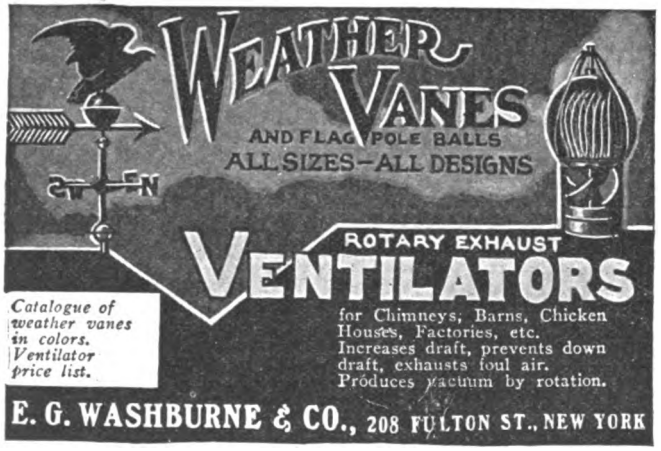
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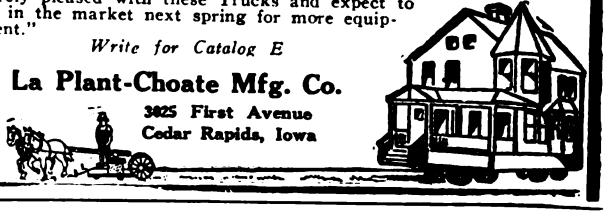
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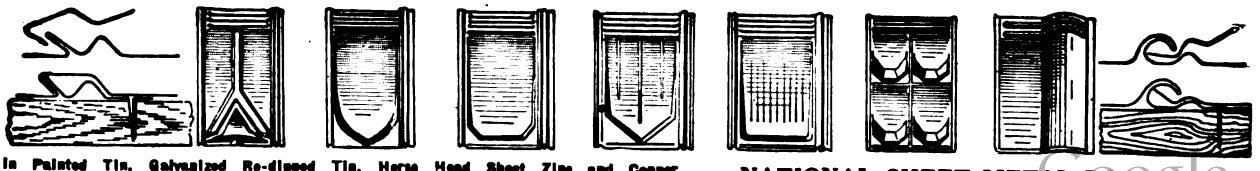
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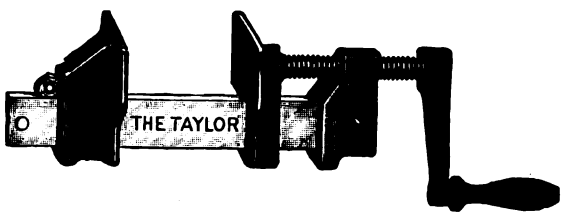
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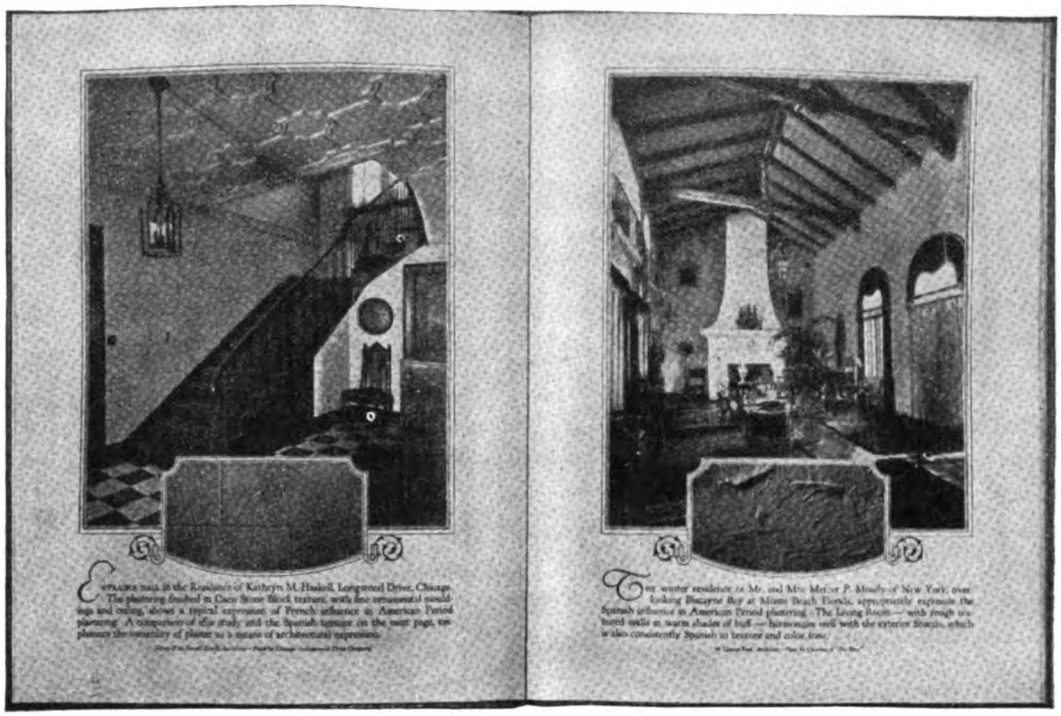
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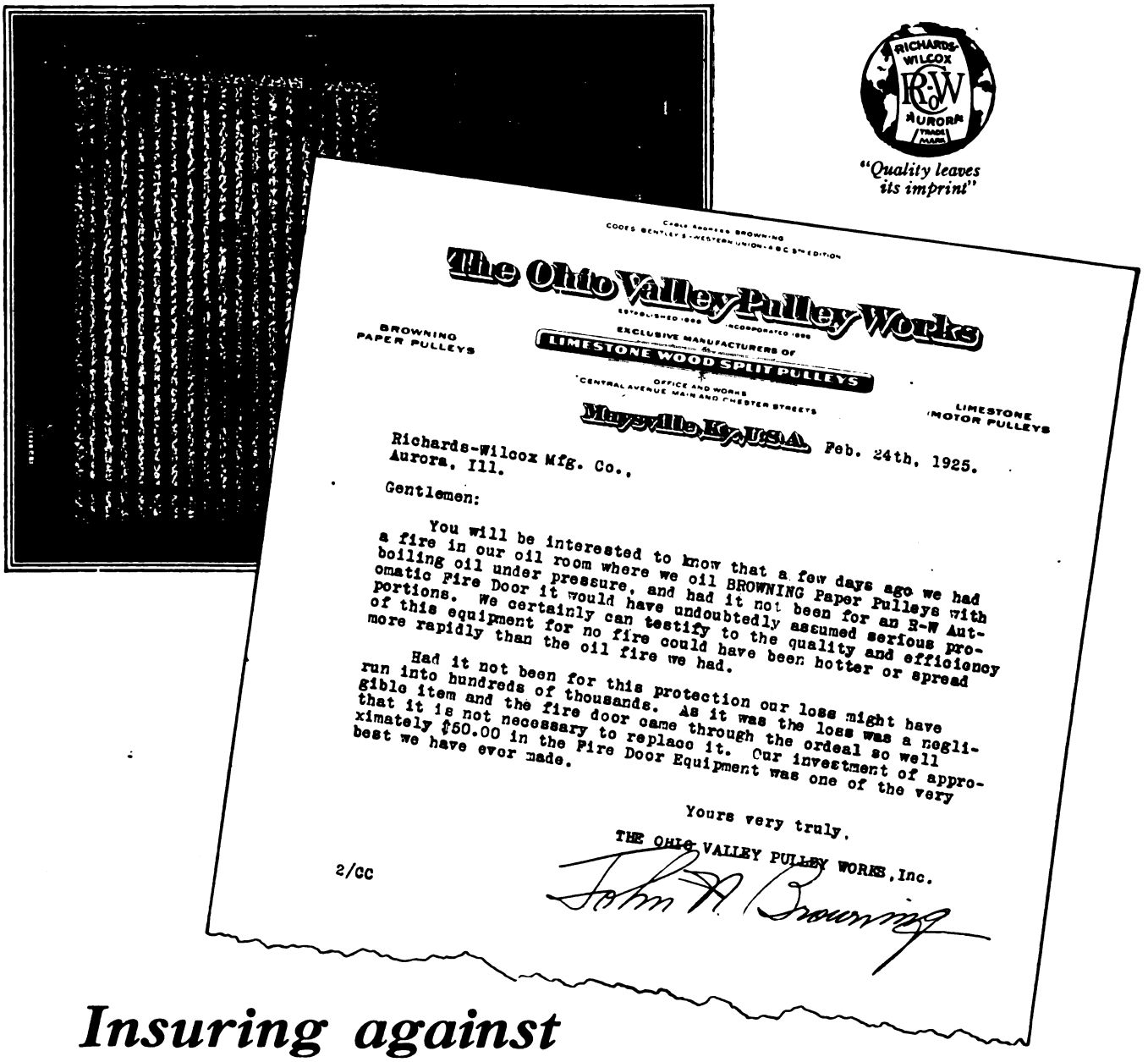
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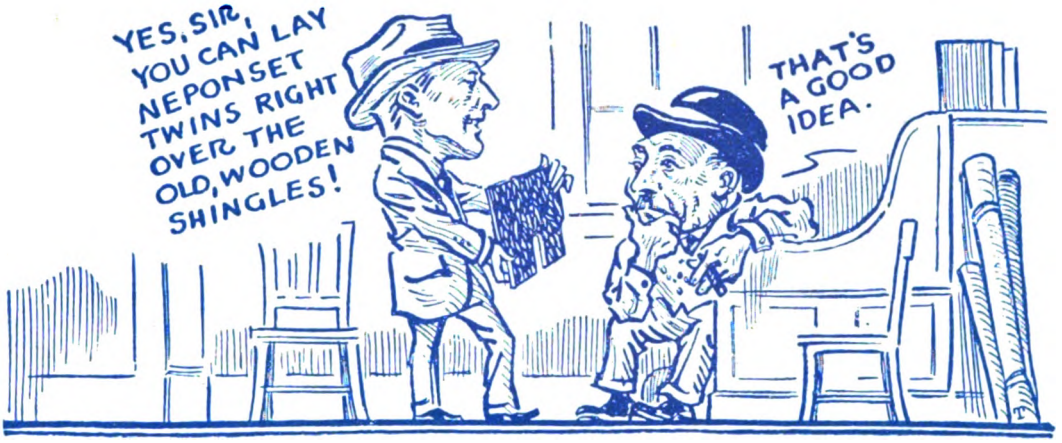
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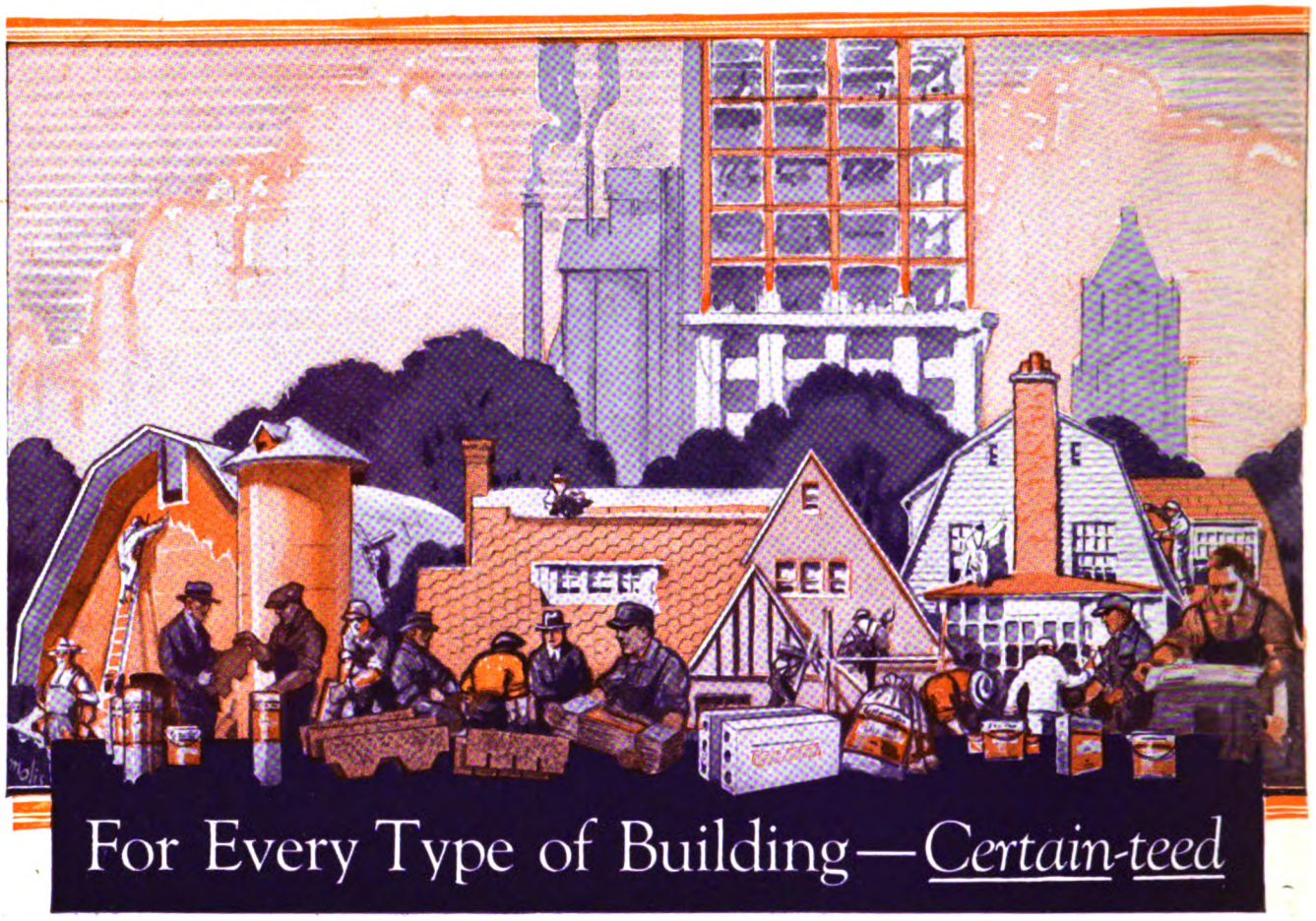
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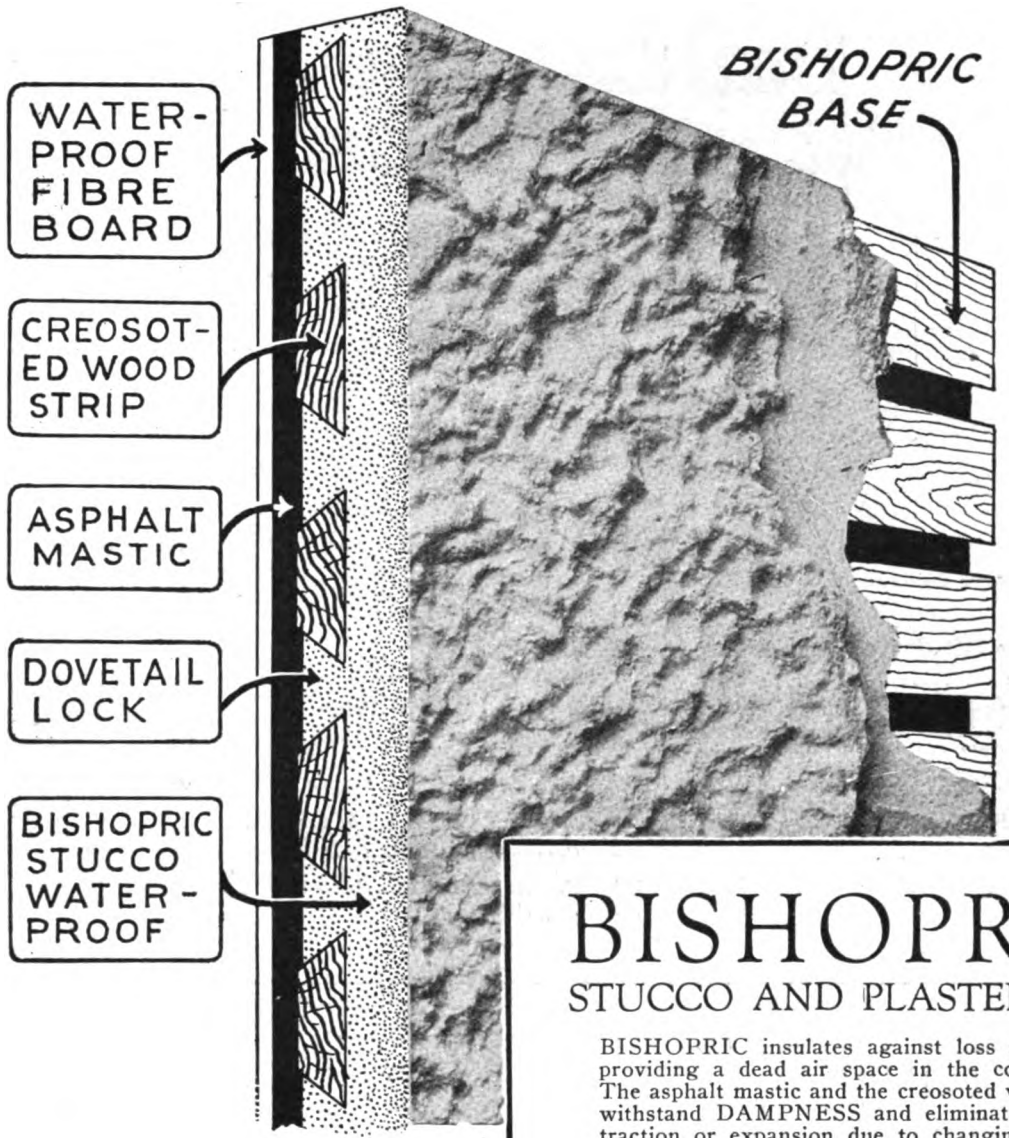
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BISHOPRIC insulates against loss of heat by providing a dead air space in the construction. The asphalt mastic and the creosoted wood strips withstand DAMPNESS and eliminate any contraction or expansion due to changing weather. BISHOPRIC insures PERMANENCE by reason of the dove-tailed wood strips which clinch the stucco. BISHOPRIC is stronger than lumber sheathing. BISHOPRIC is RESISTANT against FIRE, VERMIN, DECAY, because of the nature of its material.

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Vol. XLVII, No. 11 NOVEMBER, 1925

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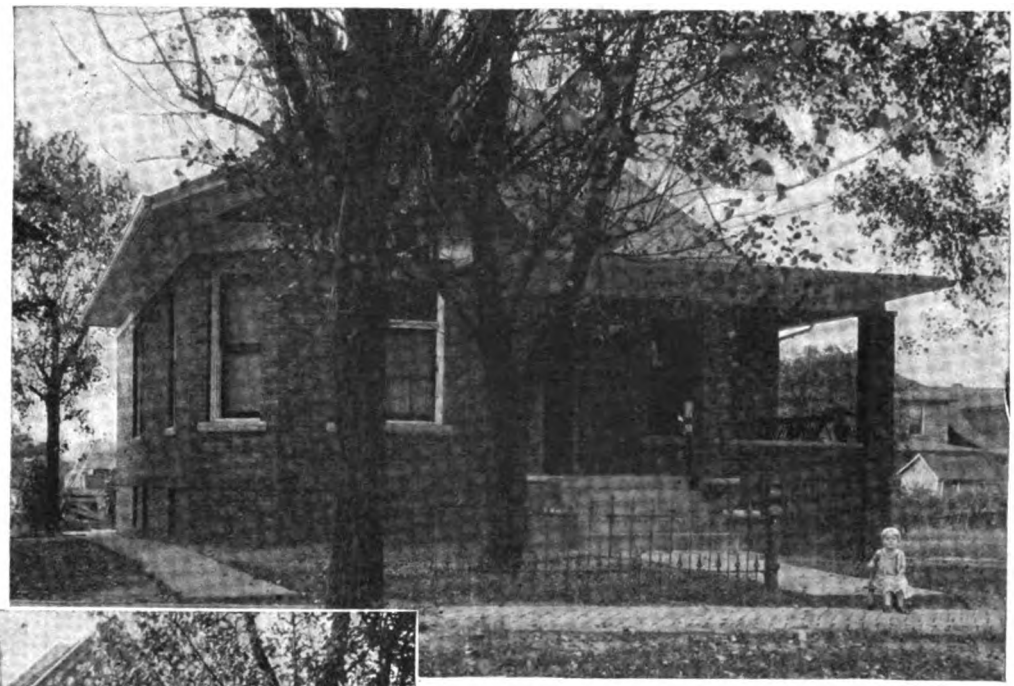
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NO MORE expensive painting jobs every few years for this residence at Russell, Kentucky. By veneering with Face Brick the owner has eliminated this expense. And at the same time he has, for years to come, the permanence, beauty, economy and high resale value of a Face Brick house.

The pictures show the house during remodelling, with the foundation course in place, and after the job was completed. Arthur Jones of Ironton, Ohio, was the contractor.

Profitable Business for Contractors

IN ANY LINE of activity it is always good business to take advantage of popular trends. Where would clothes manufacturers land if they disregarded style?

Just now the Face Brick house is growing immensely in popularity because home-builders everywhere realize its permanence, beauty, investment value and ultimate economy. Owners of substantially built old frame and stucco houses are finding that they can get the advantages of a Face Brick house by veneering the old home. Old stores, theatres, banks and churches also offer the contractor a profitable field for veneering jobs.

Progressive contractors are taking advantage of this trend and increasing their profits. It will pay you to investigate this field.

Our free booklet, "A New House for the Old," tells the contractor all he wants to know about Face Brick veneering, and also gives complete instructions for doing a good job. Send for a copy today.

If you have not been building Face Brick houses and want all the information you need to start you, send for our **"Manual of Face Brick Construction."** It is a complete and practical treatise on the subject. Sent for one dollar. Money back if you are not satisfied.

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Bright windows are a big help in the busy basement

THE genial light coming through large, friendly windows beckons the housewife to tasks that are considered irksome when performed in dark or artificially lighted basements.

In the past it was taken for granted that basements should be dark—but today it is the other way round. Builders and architects are providing larger windows—glazed with "The BEST Glass" to insure maximum light from each opening. They are flooding the basements with cheerful sunlight—letting each nook and dirt-collecting corner bathe in its healthful rays.

"The BEST Glass" costs no more than the ordinary kind yet is graded to a higher standard—for instance, our grade B is equal to grade A of other makes. "The BEST Glass" is perfectly smooth, remarkably free from defects and has a greater tensile strength than any other window glass, plate glass or rolled glass. Our new process-flattened glass may be glazed with either side out.



Fine long rye straw is used for packing "The BEST Glass" to minimize breakage.

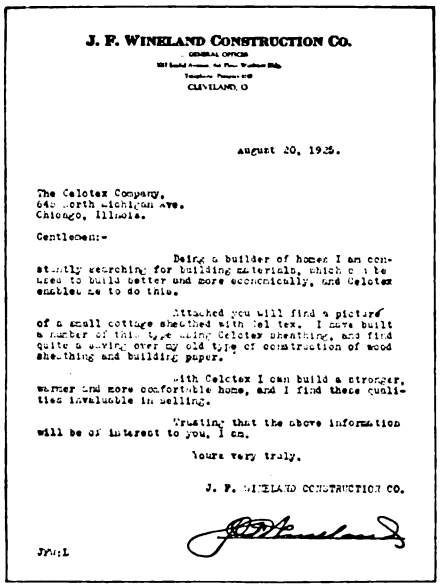
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J. F. WINELAND CONSTRUCTION CO.
GENERAL OFFICES
CLEVELAND, O

August 20, 1925.

The Celotex Company,
645 North Michigan Ave.
Chicago, Illinois.

Gentlemen:-

Being a builder of homes I am constantly searching for building materials, which can be used to build better and more economically, and Celotex enables me to do this.

Attached you will find a picture of a small cottage sheathed with Celotex. I have built a number of this type using Celotex sheathing, and find quite a saving over my old type of construction of wood sheathing and building paper.

With Celotex I can build a stronger, warmer and more comfortable home, and I find these qualities invaluable in selling.

Trusting that the above information will be of interest to you, I am,

Yours very truly,

J. F. WINELAND CONSTRUCTION CO.

JFW:L

"I can build better and more economically with Celotex"

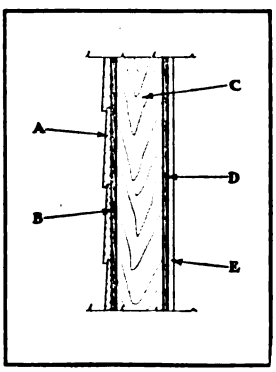
There are two kinds of builders in every community. One kind is alert and progressive—quick to grasp and use better methods, better materials. The other kind goes right along in the same old rut, unmindful of modern building improvements—far behind the times.

There is no question where the J. F. Wineland Construction Company, Cleveland, Ohio, stands. Notice the first sentence in Mr. Wineland's letter above: " . . . I am constantly searching for building materials, which can be used to build better and more economically . . ."

Celotex Insulating Lumber, according to him, is that kind of material.

Four years ago, Celotex Insulating Lumber made it practical to build houses that would really keep out heat and cold—at no extra cost.

Progressive architects and builders everywhere were quick to recognize it as one of the greatest improvements ever made in house construction. And Mr. Wineland's experience with Celotex reflects that of hundreds of other leading builders.



A. Clapboards, brick or stucco
B. Celotex Insulating Lumber
C. Studding, or framework
D. Celotex Insulating Lumber
E. Plaster

Cross-section showing application of Celotex Insulating Lumber: (B) in outside walls as sheathing, where it replaces wood lumber and building paper, and (D) on inside walls, where plaster is applied directly to its surface.

Used as sheathing on exterior walls, Celotex replaces wood lumber. It is actually stronger in wall sections than wood lumber itself. It takes the place of lath on interior walls. Plaster is applied directly to the surface of Celotex. It replaces building paper. It takes the place of deadening felt. *And*, wherever used, Celotex replaces any other insulating material.

No extra labor cost

Celotex saves construction costs, as well as material. It means fewer applications. Any workman can apply Celotex. The broad, light boards are easier sawed and nailed than wood lumber. A man can prepare a room for plastering on Celotex in approximately ⅓ less time than it would take to apply lath.

Free specifications

House insulation is the coming thing in the building field—and every progressive contractor and builder will be quick to get the facts. Celotex will help you get business and establish your reputation for building better houses.

Send the coupon below for complete specifications that show you just how easily Celotex Insulating Lumber is applied, and its many advantages to builders. Do it now!

Celotex houses cost no more to build

You can build these better, modern houses for no more than the cost of ordinary construction. Because Celotex *replaces* and saves the cost of *five* building materials.

THE CELOTEX COMPANY, CHICAGO, ILL.
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Don't Worry about those Casements!

Whitco Hardware does away with all the troubles you have had in the past with this type of window—of securing a satisfactory equipment of butts and adjusters -arranging for special hardware finishes —making a workmanlike installation.

Whitco is a simple, self-contained unit that takes the place of butts and adjusters for swinging and controlling casement sash and transoms.

It is easily and quickly applied to single sash, pairs of sash and to multiple sash in wide openings without mullions. One size fits all sash. When installed it is entirely concealed.

The friction of the shoe which slides in the track or the sill plate is sufficient to hold the sash in any position in any wind without rattle.

The way in which the sill plate extends across the joint between the stile and rail reinforces that weak point and prevents sag.

And the fact that the edge of the sash, when open, stands away from the jamb 4½ inches, makes it easy and safe to clean the outside of the window from within the room.

In a word, WHITCO Hardware makes the casement window as practical as it is beautiful.

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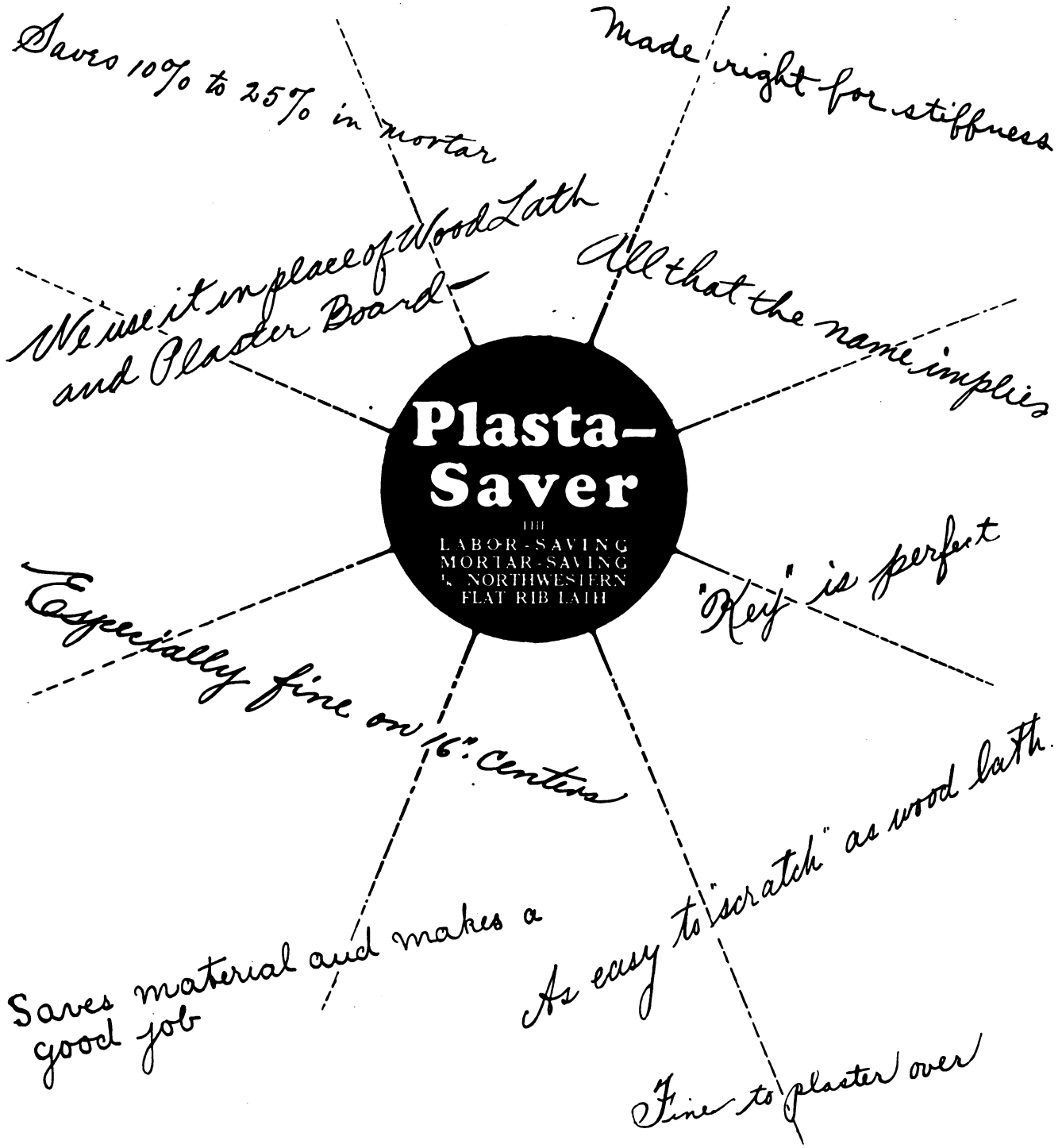
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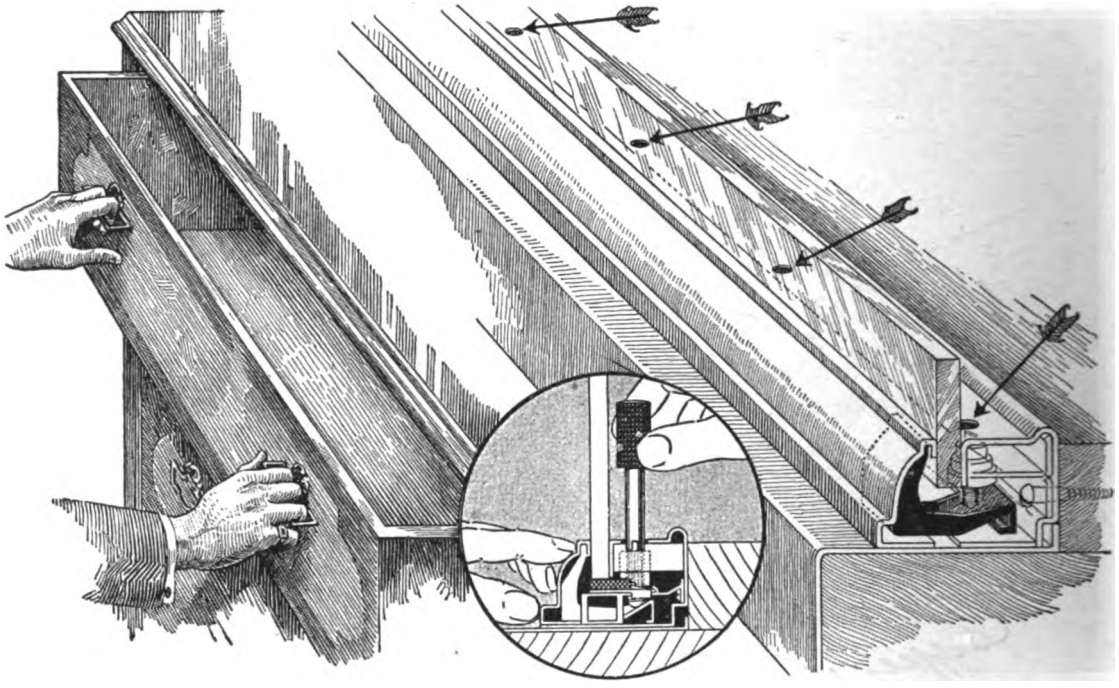
Here are nine "references" for PLASTA-SAVER. The contractors and architects who gave them are thoroly familiar with this ⅜" rib lath. They, like hundreds of other builders, find it a most economical and satisfactory plastering base. Most of them now use this fire-resisting Metal Lath in place of wood lath or plaster board.

Shall we send you samples and "Specifications?"

NORTH WESTERN EXPANDED METAL CO., ***1204 Old Colony Building,*** **CHICAGO**

NORTH WESTERN
Plasta-Saver
METAL LATH

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Zouri Indirect Key

IT IS easy to slide a drawer into place if the movement is guided from the middle evenly. But push it from the side and it sticks.

This simple illustration explains Zouri's ease of operation. Turning the Zouri key moves the entire copper gutter face inward. It contacts with the glass at every point, with



Useful detail sheets and data book

This handbook has been written for architects, contractors and builders. It deals primarily with construction and gives plans and diagrams showing best approved methods of window and display space arrangement. The detail drawings will be welcomed by specification writers. A word from you will bring them—promptly.

ZOURI KEY-SET STORE FRONT CONSTRUCTION

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-Set Store Fronts

even pressure. Zouri Key-Set construction assures a safe and easy installation. The Underwriters approve it.

And Zouri Store Fronts draw comment. They afford the merchant a favorable setting for his goods, and increasing profits for the contractor result.

Zouri Drawn Metals Company

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Henry Schweitzer, Mt. Healthy, O.

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Other scaffolding comes and goes—the average life is about a year—but *Trouble Savers* seem to last forever. And they not only save you a lot of money otherwise spent for lumber, but they save you *plenty* every time you erect or dismantle them. Two ordinary laborers erecting or dismantling *Trouble Savers* will run way ahead of four skilled men handling wooden scaffolding.

Get the complete information about the *Trouble Saver* line. Write or use the coupon below.



This is a Trouble Saver Carpenter Bracket. It hooks around the studding and stands firmly on two legs. Will support a ton weight.

The Steel Scaffolding Co.

Evansville, Indiana



Trouble Savers Adjustable Steel Trestles come in six sizes that give a range in height from sixteen inches to ten feet. A strong, solid trestle that is easily and quickly erected and adjusted.



Trouble Savers make a neat looking job that draws the admiring attention of everybody that passes.

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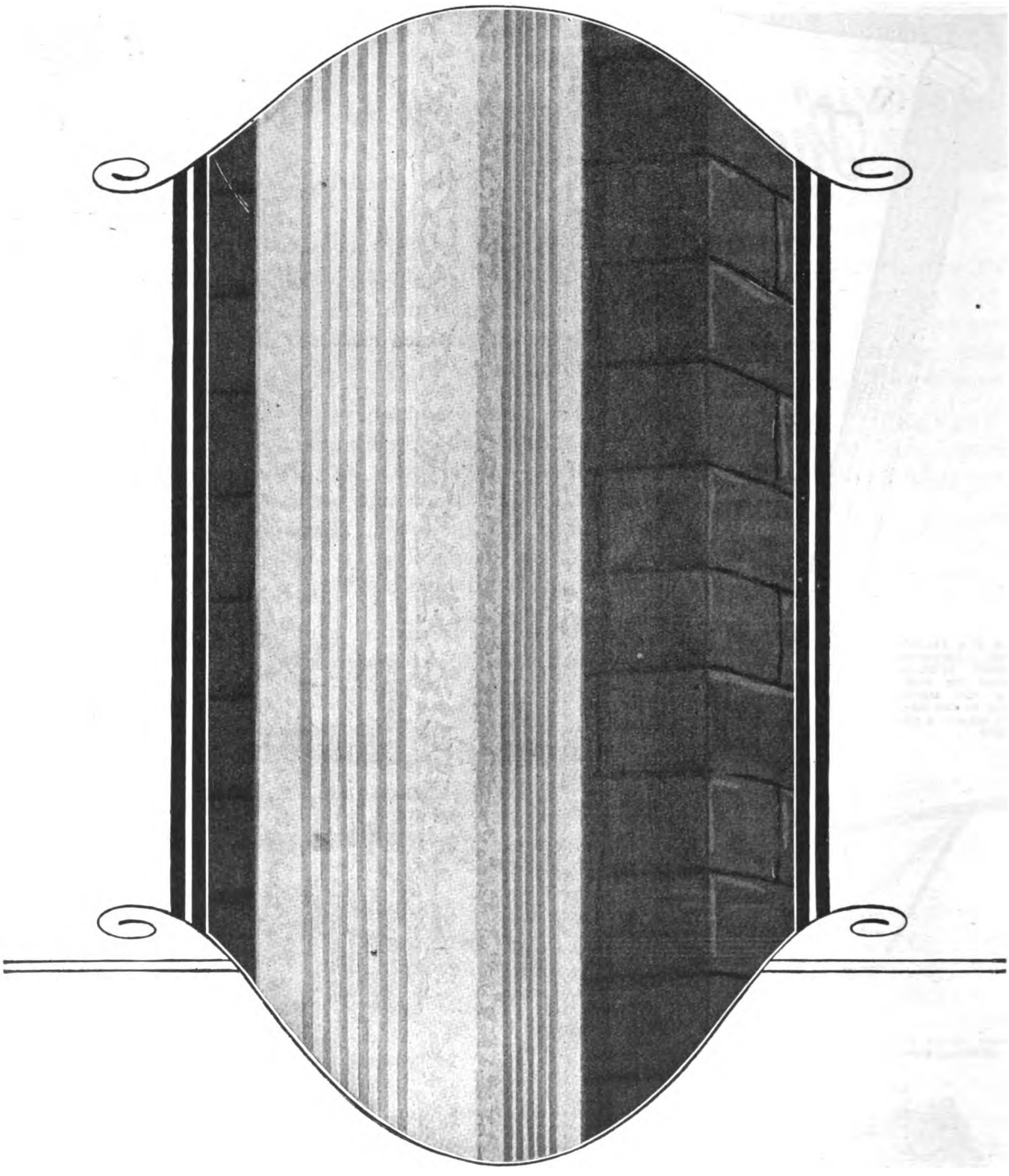
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Let Wheeling meet your needs for building materials which embrace the newest advancements in design and construction.

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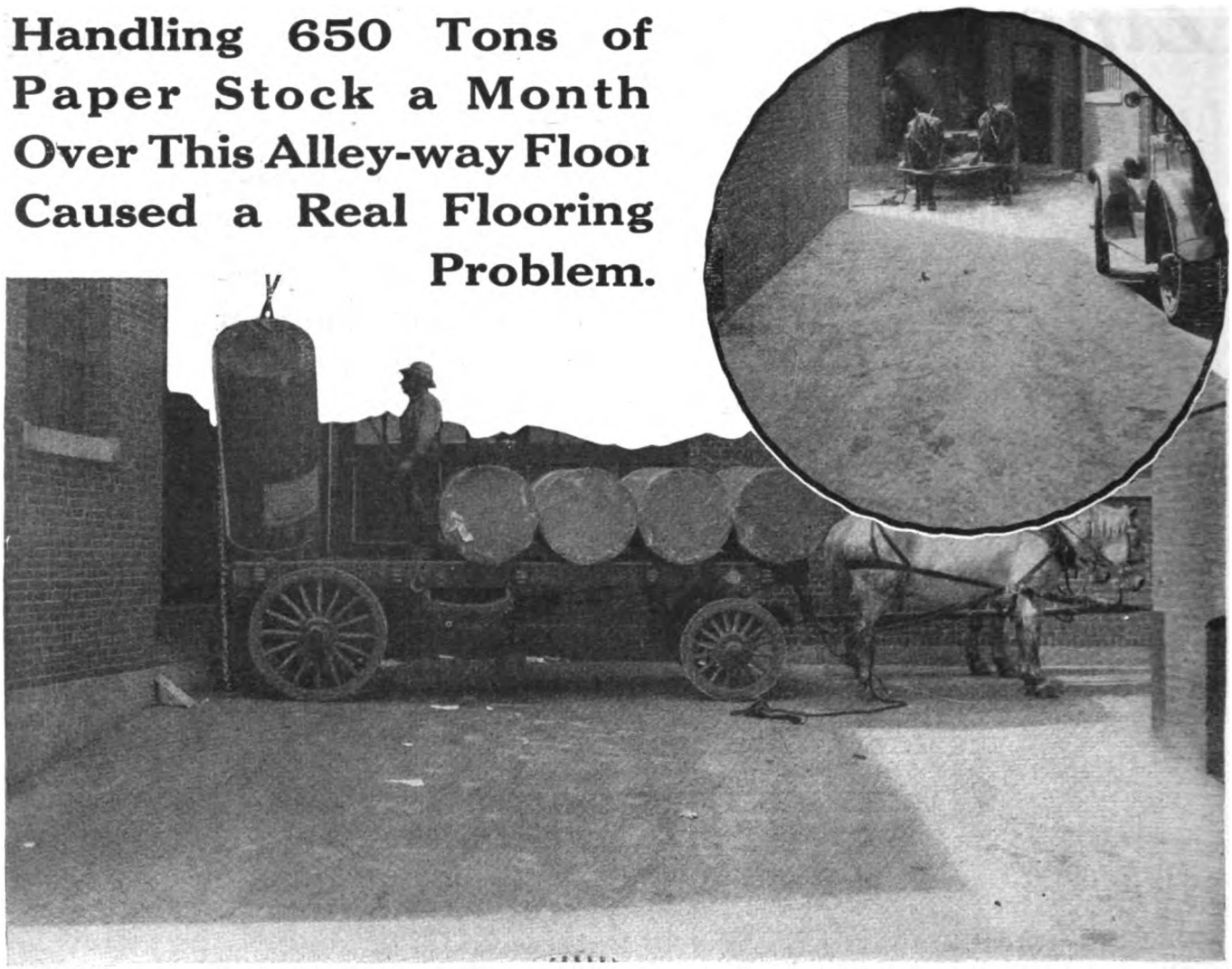
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HAND DIPPED Conductor Pipe

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Handling 650 Tons of Paper Stock a Month Over This Alley-way Floor Caused a Real Flooring Problem.



Approximately 650 tons of paper stock a month is drawn over this alley-way floor on heavy horse-drawn trucks. In the form of finished newspapers the majority of this paper passes over the floor again in light delivery trucks. The combined trucking caused a real flooring problem.

Two years ago a floor of Alundum Aggregates and trap rock in cement was installed (½ to ¾ of a pound of Alundum Aggregates per square foot with a 1-1-1 mix of cement, sand and trap rock). Neither the crushing action of the heavy truck wheels, the severe chipping action of the horses' hoofs, nor the sucking action of the rubber delivery truck tires have caused any appreciable wear. The floor is good for many more years of hard service.

All types of Norton Floors are made permanently slip-proof, durable and quiet by the bonded electric furnace abrasive trade-marked "Alundum"—long used in the well-known Norton Grinding Wheels.

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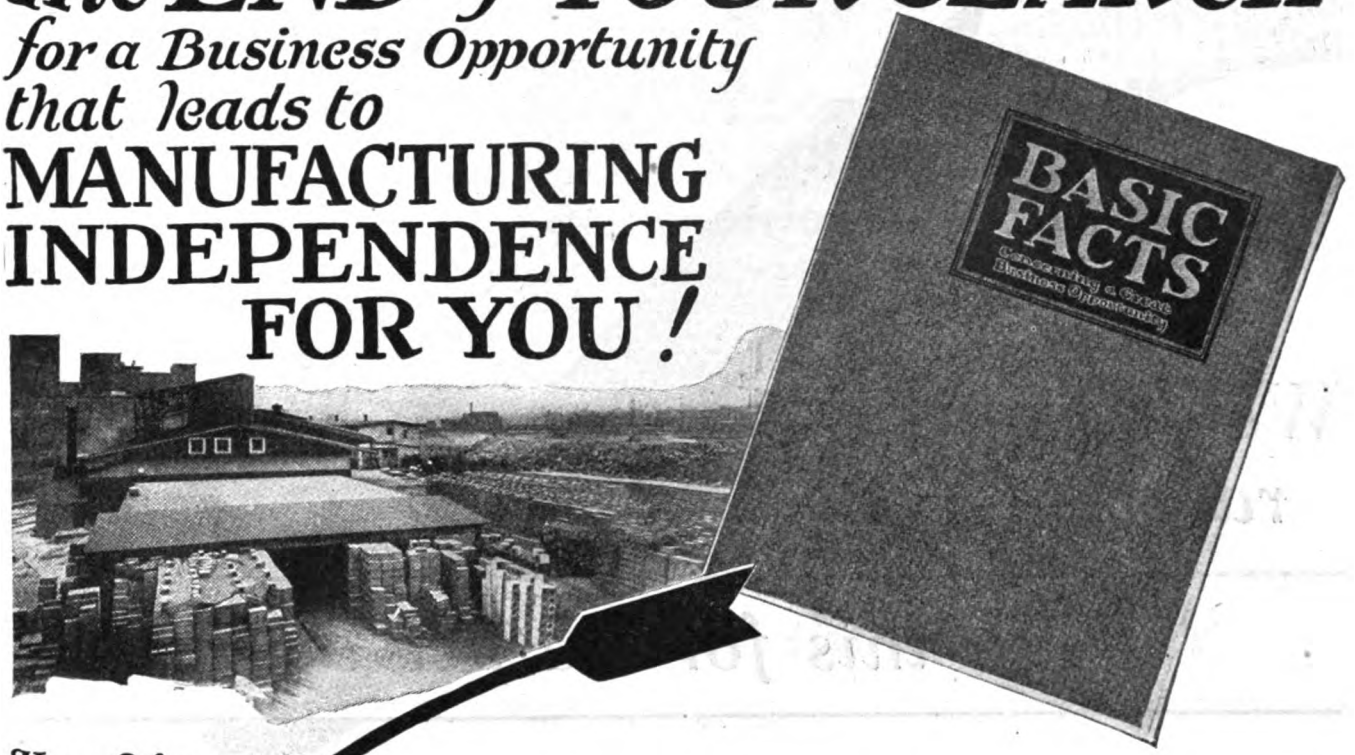
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Alundum Tiles, Treads and Aggregates

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for a Business Opportunity that leads to MANUFACTURING INDEPENDENCE FOR YOU!



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The Perfected *all-purpose Concrete* Building Unit

$3,500 invested in a Duntile plant by Frank A. Lind, Allentown, Pa., grew to $30,000 in 18 months.

Hummel and Hilldebrand, contractors of Toledo, O., began making Duntile to aid their contracting business—but Duntile's easy sales almost immediately overshadowed their original business.

Albert Dahl, eastern road building contractor, sold his $30,000 worth of road building equipment to enter Duntile business because of wide field it opened for exclusive development.

(More than 250 other Duntile manufacturers are daily building immediate profits and future prosperity for themselves.)

THIS message has a great cash value to the man of ability and some capital—to the man witl. the determination to become permanently established in a profitable business connected with the building industry. It deals with a FACT that has been proven over and over again. The man who carefully assimilates the contents of "BASIC FACTS," *which deals only in hard facts and figures,* discovers that this valuable book outlines a manufacturing opportunity that is without parallel in the building industry.

Everything You Expect to Find In an Ideal Manufacturing Enterprise

WHEN you consider going into business for yourself you naturally want to make absolutely sure in advance that the product to be manufactured has widespread acceptance; that it has marked superiorities; that it will sell readily at prices that include substantial profits and that it has a future that absolutely assures the growth and permanence of your business.

Consider then how the business of making DUNTILE lives up to your own standards of an ideal manufacturing enterprise.

DUNTILE enjoys a nation-wide endorsement of leading architects, contractors and builders.

DUNTILE is superior to all building units in that it is the only unit that reduces cost of permanent construction to the level of frame or 30% less than the cost of brick.

DUNTILE sells readily in large volumes because it is perfectly adapted to the complete construction *from foundation to roof* of every type of building. Its market is practically without limit—its profits range from 30 to 60%.

DUNTILE guarantees the growth and permanence of your business because it fills a need in the great building industry that is not met by any other building unit.

Investigate Further—Act Now By Sending for "BASIC FACTS"

IN this limited space it is possible only to briefly summarize some of the outstanding reasons why you cannot afford to pass up investigation of this proposition. But if you will simply fill out and mail the coupon below we will send you, without obligation a copy of the latest edition of "BASIC FACTS." This covers every phase of the proposition—it answers every question that may come up in your mind—it points the way to a big opportunity for you. Act NOW.

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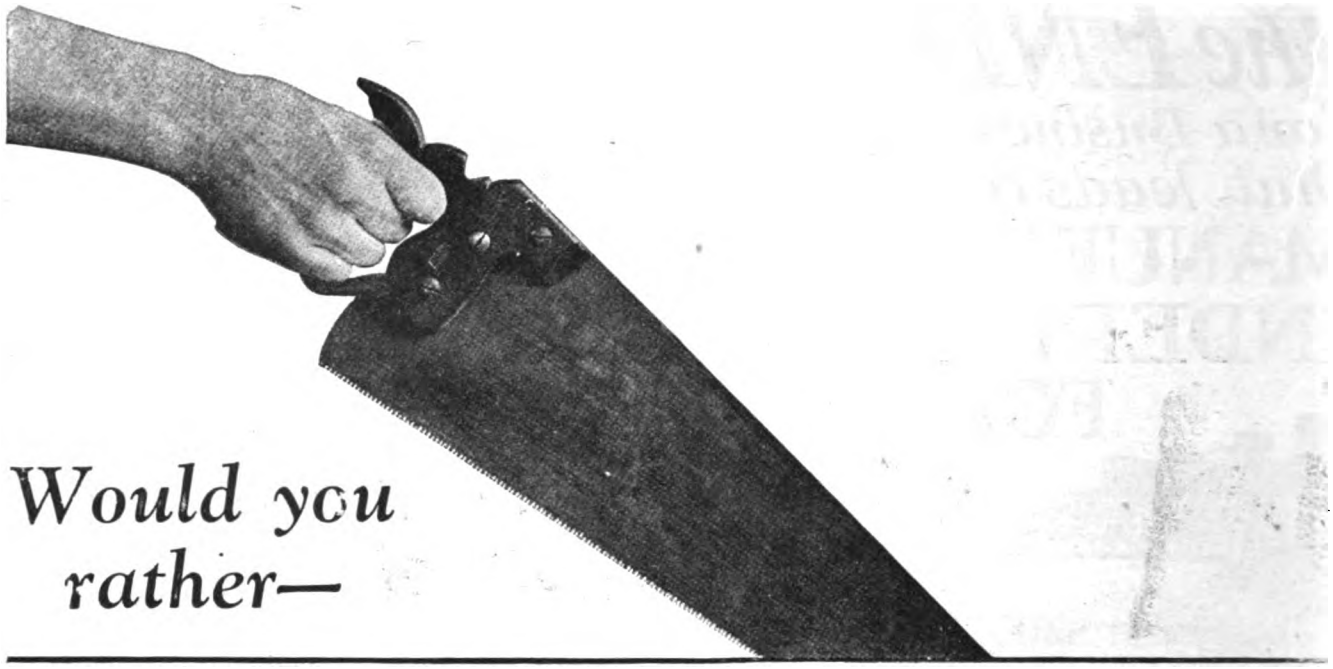
Show me through your book, "BASIC FACTS," the facts and figures that prove how average ability and some capital win manufacturing independence for those supplying DUNTILE in each community. Also show me how I can manufacture DUNTILE in a plant of my own at a profit of 30% to 60%.

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St. Address .....

City ..... *State* .....

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Push this for $10 per day

Here is a great inspiring message for every carpenter who is ambitious to earn more money—to live in a better home and drive a finer car.

Probably you are now earning about $10.00 per day and feel that this is about the limit.

And it probably is the limit if you continue to work with the same tools carpenters have used for hundreds of years.

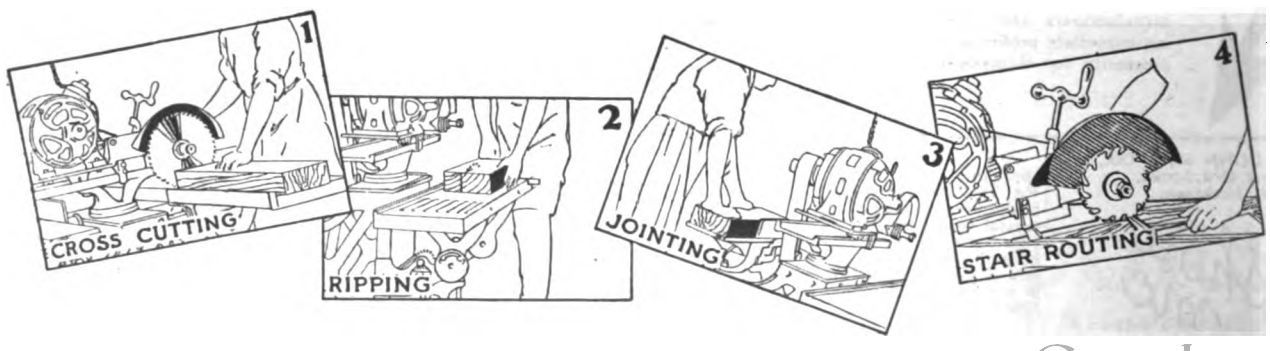
Because with old-fashioned tools most of your time is spent, not in using your brains or your skill, but in the common drudgery of pushing a saw or a plane.

Now, there is a way out—a way that will double or treble your wages.

With this marvelous machine—the Master Woodworker—you will devote all your skill—all of your time and effort to planning and guiding the work. The machine does the drudgery.

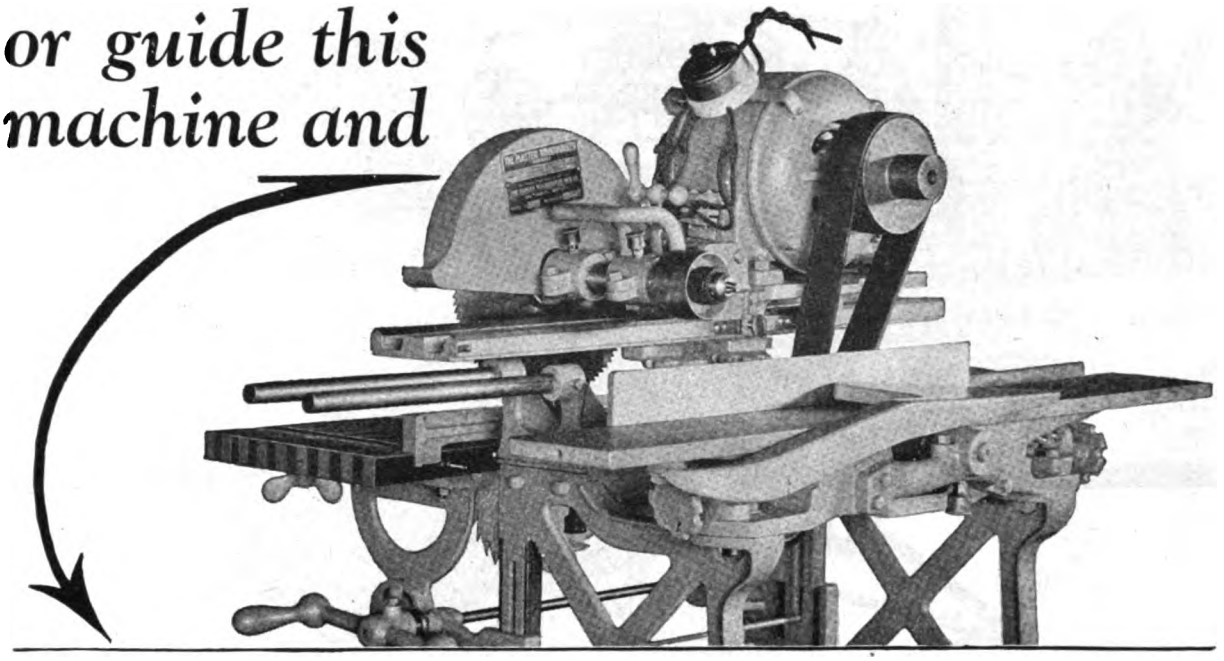
Consequently, you will be able to do the work of from 4 to 6 men.

The Master Woodworker is well



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or guide this machine and



Easily earn $20 per day—or more

designed and constructed—will last a life time. It is easily portable from job to job.

The "Master" is really 12 machines in one—doing all these operations: cross cutting, ripping, jointing, boring, sanding, dadoing, planing, routing, mitering, rabbeting, molding, band-sawing, mortising, tenoning, grinding, matching, stair routing and making inside door jamb and jack rafter cuts in one operation.

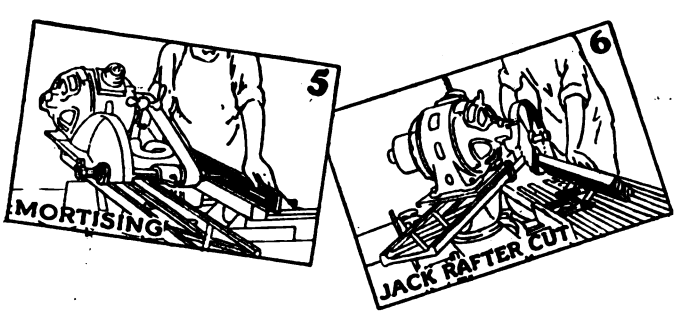
Rips 2″ stock at 30 ft. per minute.

And you can buy it so easily with just a little payment down. Then take part of your increased wages and meet the small monthly payments required.

Sign and mail the coupon for our big new catalogue showing complete new details.

MASTER WOODWORKER
MANUFACTURING COMPANY

612 Brush Street DETROIT, MICHIGAN



Mail This Coupon for Free Big Book

Master Woodworker Mfg. Co.
612 Brush Street
Detroit, Michigan

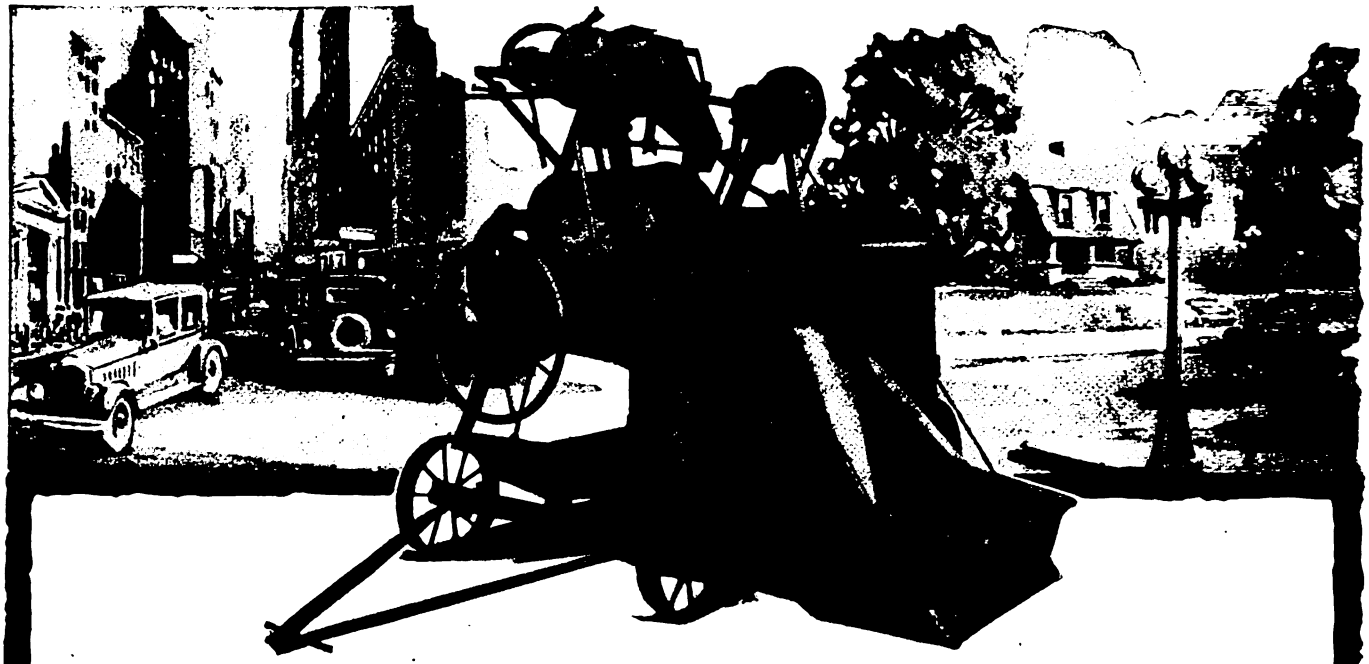
Send me your Big Book free showing me how to double or treble my wages.

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*Address*_____

*City*_____ *State*_____

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On Every Street ~~ a JAEGER!

ALL tilting-drum mixers are not Jaegers. "The Jaeger" is far superior to any mixer made, and should not be confused with inferior machines, even though they be of the tilting-drum type. Protect yourself by getting the "genuine Jaeger." Look for the name on the drum, and the flat spots inside.

Write us for the name of the distributor nearest you.

STOCKS CARRIED IN PRINCIPAL CITIES.



GO along any street in town where buildings are going up. There you will find Jaeger Mixers—and the men who use them. There you can watch these dependable mixers at work—and hear from those who operate them how efficiently they perform their tasks and economize time and labor. For Jaeger service and dependability are world-famous—wherever concrete construction is used.

Always the Leader

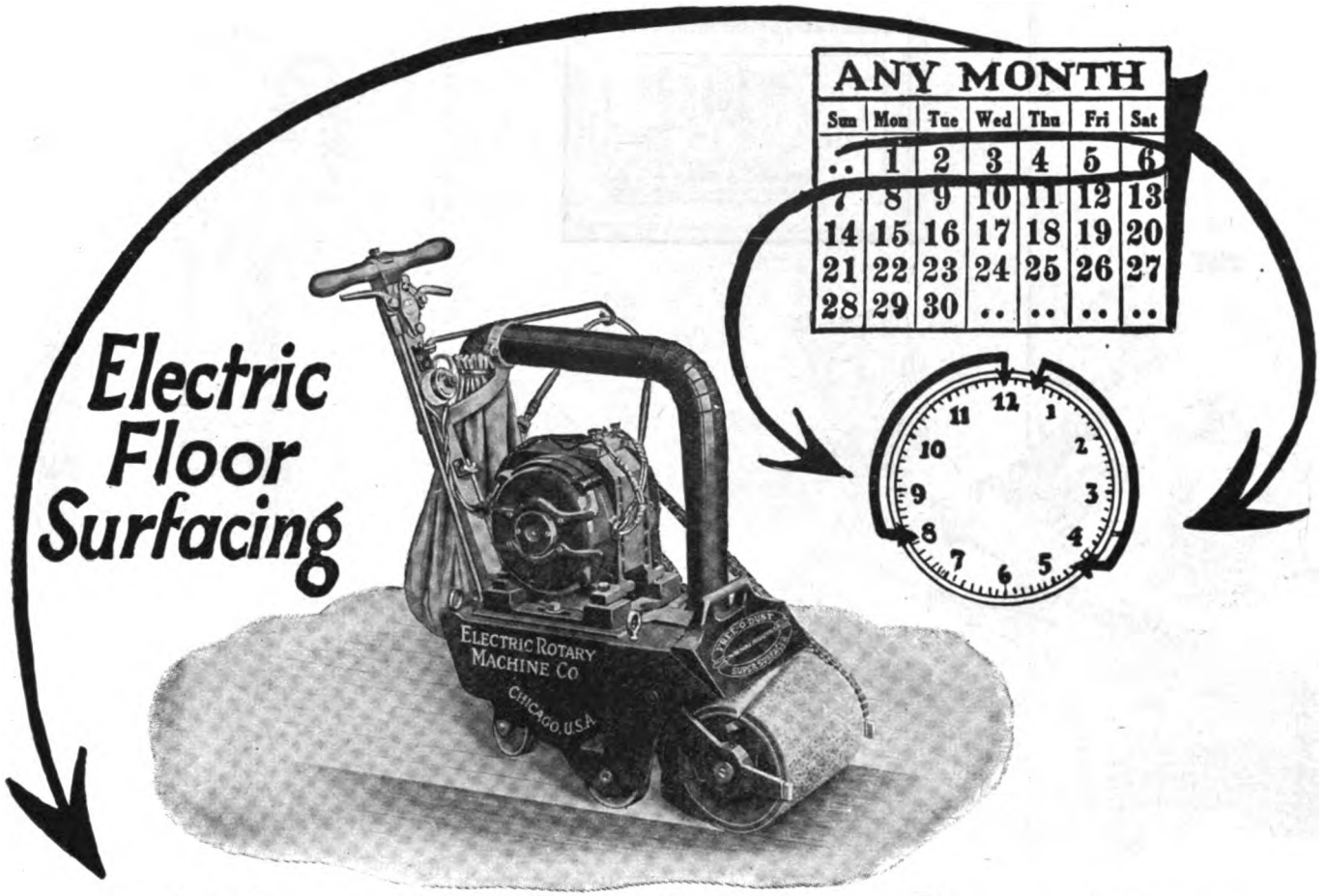
JAEGER has pioneered the way in developing concrete mixers. Jaeger has never imitated, but has always led the field by the constant improvements of Jaeger engineers. And for price, quality and performance, these original Jaeger Tilting Drum Mixers are the greatest mixer value it is possible to buy. A complete line of 36 models—the right size for every job.

Write today for catalog and name of our nearest dealer.

The Jaeger Machine Co.
216 Dublin Avenue Columbus, Ohio

The Original Jaeger Tilting-Drum Mixer!

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A Week's Work in One Day

Electric Rotary Machine Sandpapering Disc

14 inches in diameter



The Electric Rotary Machine can be used not only for sanding wood floors when an exceptionally high finish is desired, but also for surfacing and polishing Marble, Terrazzo, etc., waxing and polishing, scrubbing as well as for every other kind of floor work by simply putting on a different attachment. Our special flexible shaft attachment for covebase, wainscoting, sidewalls, stairs, etc., is one of the exclusive features of this time and labor saving machine.

With the FREE-O-DUST Super Surfacer floor surfacing can easily be handled at the rate of "a week's work in one day." In other words, you save the wages of from six to eight men completing your job quicker and at the same time the machine will do much better work than could be done by hand.

This machine has a number of exclusive features, among the most important being that every particle of dust is collected on the forward movement as well as on the backward movement, and that the machine can be operated right up to the baseboard.

The no-dust-feature is of particular importance when resurfacing old floors in buildings that are occupied. Even when surfacing new floors it is, however, a great advantage because it protects the health of the operator by preventing him from inhaling the poisonous substances that often accumulate in wood flooring.

It does faster and better work. Easy to operate. Pressure on drum automatic and drum can be locked to any pressure desired.

Will pay for itself on the first few jobs, and is sold on an unconditional five days free trial.

Mail coupon today for full information and literature. It does not obligate you in any way.

Electric Rotary Machine Co.

3833a W. Lake St., Chicago, Ill.

Branch Sales Office: New York City

MAIL COUPON TODAY

ELECTRIC ROTARY MACHINE COMPANY
3833 a W. Lake St., Chicago, U. S. A.

☐ Please send me booklet "A Day's Work" giving full information about the FREE-O-DUST Super Surfacer.

☐ Please send me General Booklet giving full information about the Electric Rotary Machine.

Name.....

Address.....

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"Hello" in the '70's

THE telephones of the late '70's were not self-starters. They had to be cranked. They were items of considerable interest to most people and positively awe-inspiring to the children who deserted their toys to stand about impatient for their turn to listen.

¶ In 1884 the first long distance telephone line was built from New York to Boston. This was constructed from the as yet dubious material called hard drawn copper wire, made by the Bridgeport Brass Company. $70,000 was risked on the venture which was gloriously vindicated both by the operation of the line and the permanence of the material that composed it.

¶ When taken down after 32 years of continuous service, the wire had suffered no appreciable deterioration. It was cast into medals and distributed to members of the Telephone Pioneers of America, composed of those who played an important part in the original development of telephone communication. Throughout its 60 years, the company has built into its products that permanence typified by this performance. Plumrite brass pipe has many such records of uninterrupted service in the great buildings of America.

"Bridgeport" BRASS TRADE MARK CO.
Brass Products
WE MAKE
Ledrite Brass Rod
Phono-Electric Contact Wire
Plumrite Brass Pipe
Phono-Hi-Strength Wire
Tubular Plumbing Goods
Condenser Tubes-Sugar Tubes
Brass, Bronze and Copper Sheets
Brass, Bronze and Copper Tubes
Auto Bicycle and Pressure Pumps
Auto Accessories-Stampings
Engravers' Copper-Specialties
Screw Machine Products
Pressed or Drawn Products
Oil and Grease Guns

This is our Sixtieth Anniversary

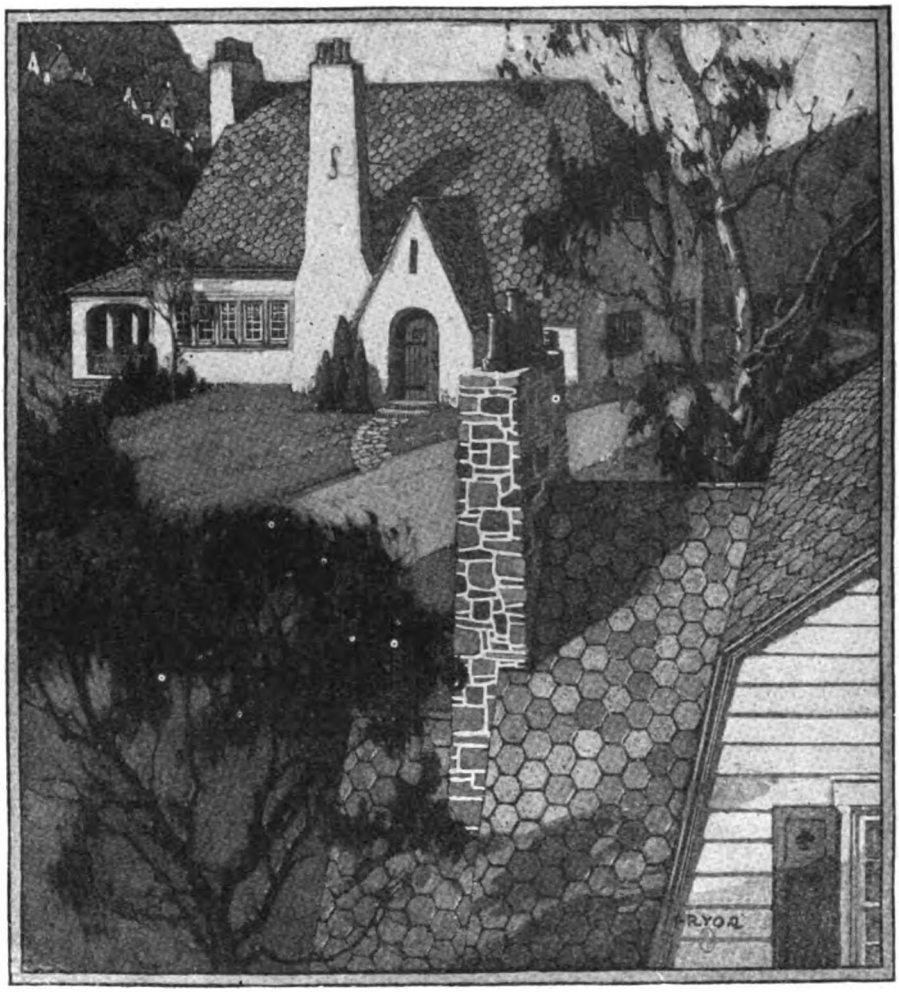
Bridgeport Brass Company
BRIDGEPORT - CONNECTICUT
NEW YORK PHILADELPHIA CLEVELAND CHICAGO DETROIT

Electric Furnace Brass

Bridgeport Plumrite

Member Copper and Brass Research Association

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A distinctive roof makes a distinctive house

PRESTON Shingles add a pleasing note of individuality to any pitched roof, whether a house is simple or pretentious. The natural colors of Preston Shingles are extremely attractive and harmonize with any type of architecture.

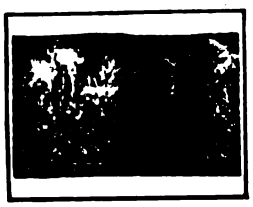
An added note of distinction is given by the Hexo-Diamond design—a pattern which makes a series of uniform hexagons. These shingles are self-spacing.

Preston Shingles are made in three weights: Heavy Standard, Extra Heavy and Massive, and besides the Sunset shade in three colors: Green, Blue-Black and Red.

The "Massive" weight is approximately one-third thicker than a Standard No. 1 slate shingle, and is much thicker than any other slate surfaced asphalt shingle on the market. Architects have welcomed a thickness that would create the shadow line necessary for high grade work.

Write us to-day for the book, "The Magic Touch of Preston Shingles." At the same time we will give you the name of a dealer who can supply you.

KEYSTONE ROOFING MANUFACTURING COMPANY
Dept. C11, York, Pennsylvania



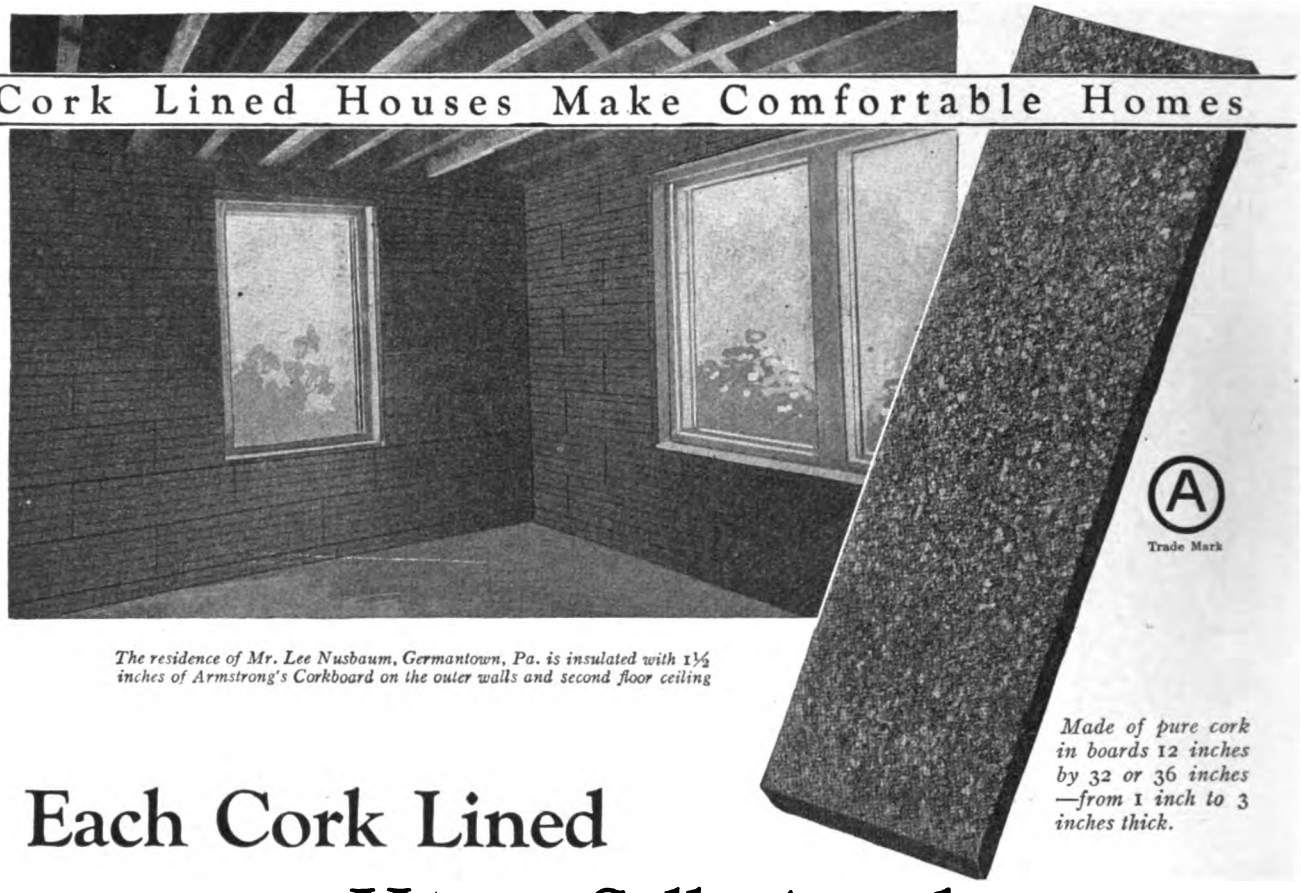
Microscopic Enlargement

THE wearing qualities of Preston Shingles are dependent not only on the quality, but also on the quantity of asphalt which each shingle contains. If you examine the edge of a Preston Shingle you will notice that it is practically a solid body of asphalt. This feature of Preston Shingles accounts for their remarkable wearing qualities.

Preston ROOFING

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Cork Lined Houses Make Comfortable Homes



The residence of Mr. Lee Nusbaum, Germantown, Pa. is insulated with 1½ inches of Armstrong's Corkboard on the outer walls and second floor ceiling

Trade Mark

Made of pure cork in boards 12 inches by 32 or 36 inches —from 1 inch to 3 inches thick.

Each Cork Lined House Sells Another

THE owner of a cork lined house finds it easier to heat with considerably less fuel. He finds it free from the drafts so common in uninsulated dwellings. He finds the upstairs rooms just as comfortable, winter and summer, as those downstairs. And he does not hesitate to boast of these advantages to his friends. As a result, each house insulated with Armstrong's Corkboard sells at least one other. It is a recommendation for its builder the year round.

In addition, full page advertisements each month in The Saturday Evening Post, House Beautiful, House & Garden and The Small Home are telling prospective home owners in your community of the comfort and economy of cork lined houses. You will find that they will be interested in homes insulated with Armstrong's Corkboard and will be easy to convince that they are worth more than the ordinary kind.

Get all the facts about Armstrong's Corkboard. It is just as easy to handle as lumber; it is nailed in place against frame construction or set in Portland cement mortar against brick, hollow tile, concrete or stone; it takes and holds plaster without lath or furring; it is a fire-retardant, vermin-proof, moisture-proof and will not buckle, swell, mold or rot. For complete information address Armstrong Cork & Insulation Company (*Division of Armstrong Cork Company*), 197 Twenty-fourth Street, Pittsburgh, Pa. Canadian office, McGill Building, Montreal, Quebec.



Branches in the Principal Cities

Armstrong's Nonpareil Corkboard Insulation

for Residential, Commercial and Industrial Buildings



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A Sure, Inexpensive Way To Please Your Customers

It costs very little to install Knape & Vogt Clothes Closet fixtures in the houses you build. Yet they add tremendously to the convenience and desirability of the home. They beautify any type or style of closet, double its capacity—saving half the space, and provide perfect clothes protection and convenience.

Our new booklet is a mine of information about making clothes closets truly modern and attractive. It will show you just how to make Knape & Vogt fixtures a big asset in your business. Yours for the asking.



Knape & Vogt Mfg. Co.

GRAND RAPIDS, MICHIGAN

Knape & Vogt fixtures are sold in hardware stores everywhere. Should your dealer be unable to supply you, order direct from factory.

PRICES

14 inch	$4.00	22 inch	$5.30
16 inch	4.30	24 inch	5.50
18 inch	4.60	26 inch	5.80
26 inch	4.90	28 inch	6.10

Knape & Vogt Mfg. Co.,
GRAND RAPIDS, MICH.

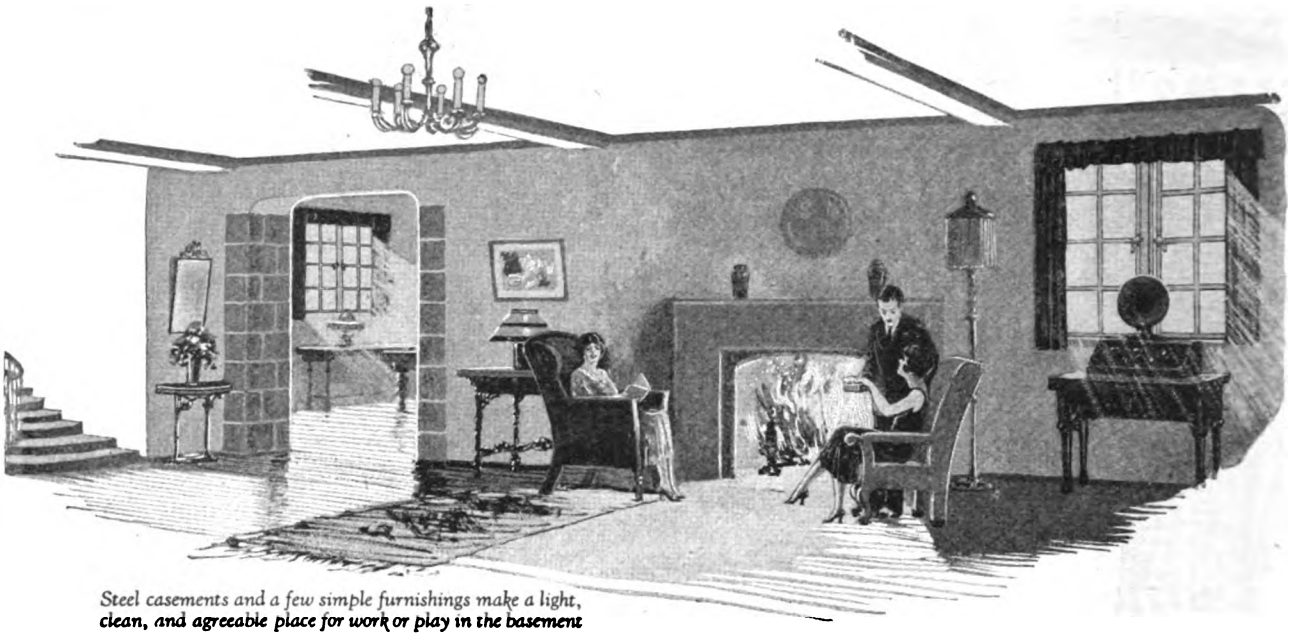
Please send me your new Free Booklet, "Beautiful Clothes Closets."

Name.....

Address.....

City.....

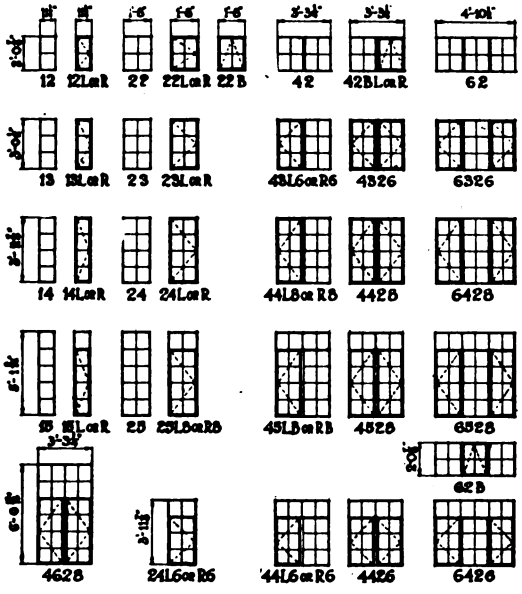
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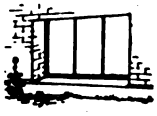


Steel casements and a few simple furnishings make a light, clean, and agreeable place for work or play in the basement

Casements for Basements

STANDARD LUPTON CASEMENT UNITS





For low basement walls

Where basement walls are not high enough above ground to permit the use of Lupton Steel Casements, Lupton Steel Basement Windows should be used. They are rigidly welded, easily set, good-looking and permanent. Made in four standard sizes.

FOUR of the six prize-winning designs in the *Modern Basement* competition held by the Peoples Gas Light and Coke Co., Chicago, call for *steel casement windows*. The designs show that casements in the basement wall give a smart appearance as well as abundant daylight and ventilation.

This new and important use of steel casements emphasizes how successful builders are turning public approval of Lupton casements to their own profit. By using these popular windows from basement to attic in their operations they are able to make quicker and more profitable sales.

Comparative tests on houses with and without steel windows prove that Lupton Casements increase the value and desirability of your properties and thus increase your profit and speed up your turn-over. Take advantage of this situation and plan for Lupton Steel Casements from now on.

Write for Catalogue C-122

DAVID LUPTON'S SONS COMPANY
2249 E. Allegheny Ave. Philadelphia, Penn.

Atlanta Boston Chicago Dallas Los Angeles New York
Baltimore Buffalo Cleveland Detroit Newark Pittsburgh

LUPTON

STEEL WINDOWS EVERYWHERE

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REAL ESTATE + INSURANCE AND LOANS

ESTABLISHED 1893
INCORPORATED 1905

APPRAISEMENTS

MAIN 1638
MAIN 184
CENTRAL 1866

JOHN S. BLAKE & BRO. REALTY COMPANY

815 CHESTNUT ST.

REALTORS

St. Louis July 29th, 1924.

"Hot water or steam does add to the saleability"

Barton, Durstine and Osborn,
383 Madison Avenue,
New York City, N.Y.

Gentlemen:

Replying to your letter of July 24th we have to say that in our thirty years experience in selling real estate we can truthfully state that the installation of hot water or steam heat in a house does add materially to its saleability and we firmly believe that such an installation would add much more than its cost to the selling value of the house.

Very respectfully,

JOHN S. BLAKE & BRO. REALTY CO.
By James A. Blake
President.

JPB.VK

St. Louis.

Not only does the home with an IDEAL Boiler and American Radiators sell more easily; invariably it sells for *more than the additional cost* of the equipment. Customers naturally assume that homes so equipped have the best of other materials, too.

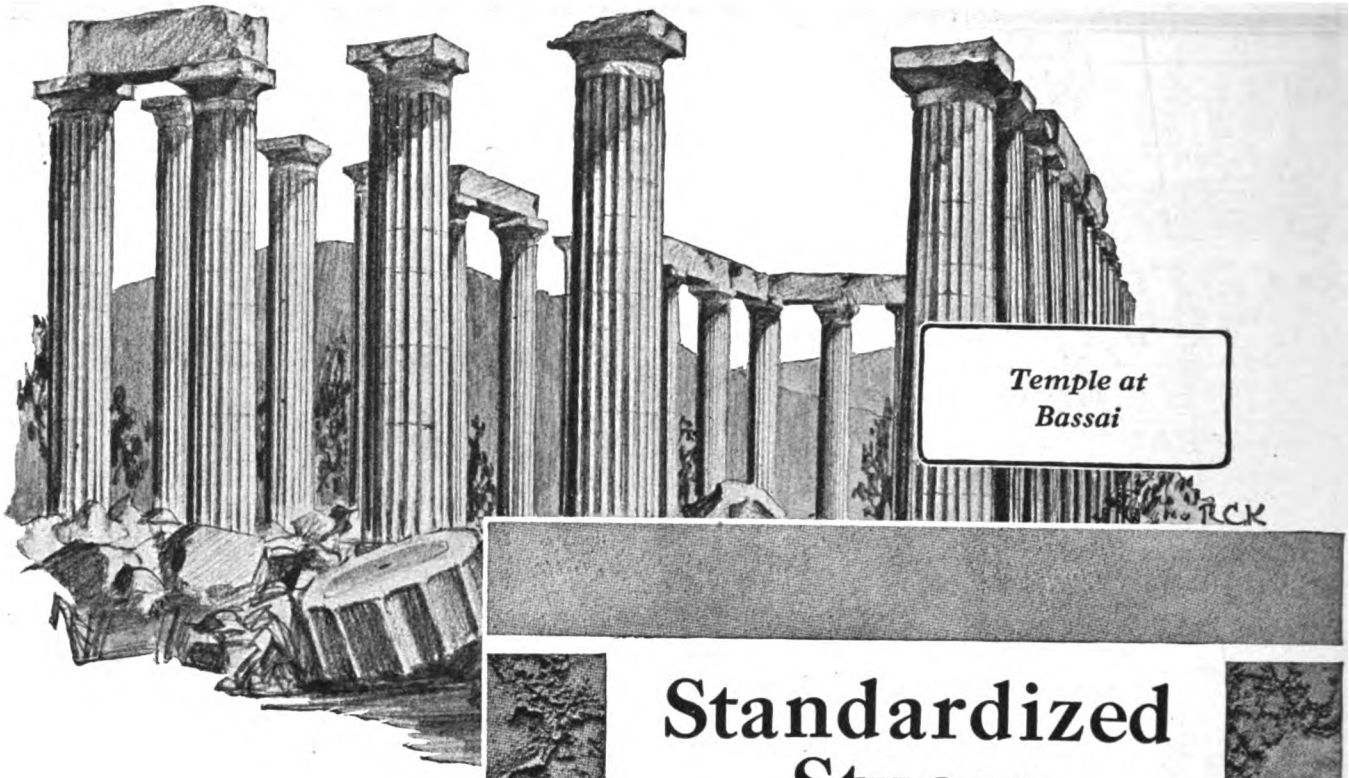
AMERICAN RADIATOR COMPANY

Dept. T-261, 1807 Elmwood Ave., Buffalo, New York ***Sales Offices in all principal cities***

IDEAL BOILERS AND AMERICAN RADIATORS FOR EVERY HEATING NEED



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Temple at Bassai

The Story of STUCCO

The temple of Apollo at Bassai in Greece, built about 470 B.C. of yellow sandstone, was faced entirely, both inside and out, with Stucco. No better ground could be imagined for the decorative polychrome painting which at this period of Grecian history had reached a very high degree of beauty. Even the temple pavements were made of a specially resistant stucco and stained in various patterns with gay pigments. Without stucco, in fact, the early architect would have been hard put to it to secure his effects.

MULLER ASBESTONE GUARANTEED PRODUCTS TRADE MARK

Standardized Stucco

ASBESTONE Quality is Uniformly High and Dependable

ASBESTONE Stucco cannot vary. Before it is shipped samples of each lot are given a laboratory test to ascertain its tensile and modulus of rupture strength. The only standardized stucco.

ASBESTONE Stucco is unequalled in tensile strength, elasticity and durability. It is weather and fireproof; a material economical and permanent. If applied according to our own instructions, it is guaranteed not to crack, expand or contract of its own volition. In remodeling old and building new structures, it meets every requirement.

Sold by most reliable dealers

If your local dealer cannot supply you, write for samples and prices. ASBESTONE stucco, quality considered, is extremely low priced.

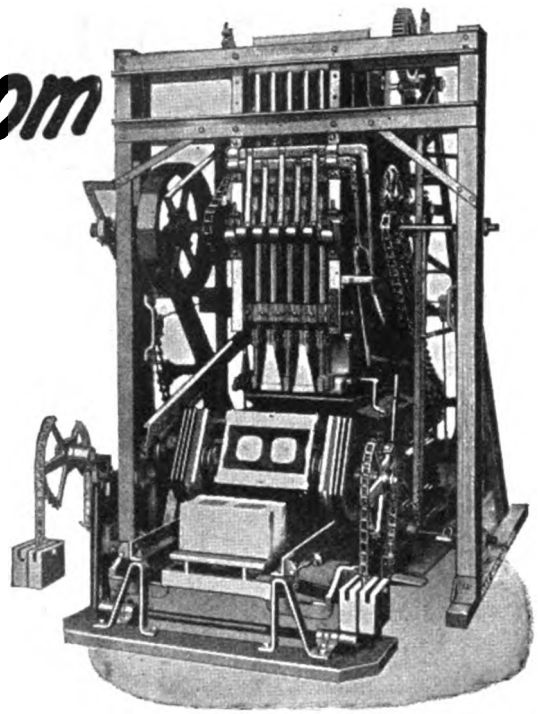
FRANKLYN R. MULLER, Inc.
1104 Madison Street
Waukegan - - Illinois



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BUILDING OPERATIONS

..are on the boom



Things have been very active all Fall—and activity will continue. Products men are conducting their business just as they do in other lines: on the basis of 12 months in every year.

If your competitor is "on his toes," all the more reason for you to be; if he is short-sighted and lays off his gang, the available business is bound to be yours if you go after it.

Here's the formula for all-year-round activity and profits:

The IDEAL ROLL-OVER STRIPPER

IDEAL

It's a simple, easily adjusted super-machine that insures quality Block and Tile in quantities. They are dense, true, uniformly attractive and salable.

Get in Touch with Us, and We'll Arrange for You to See the Roll-Over in Action

MACHINERY REPRESENTATIVES

J. A. Abele, Box 682, 425 Whitney Trust Bldg., New Orleans, La.
R. D. Ballantyne, 1013 Healey Bldg., Atlanta, Ga.
Allen R. Boudinot, 302 E. Rusholme St., Davenport, Ia.
R. E. Brooks Co., 50 Church St., New York, N. Y.
Cannon Equipment Co., 130 Grand Ave., Rm. 903, Milwaukee, Wis.
Essick & Co., Santa Fe Ave. and 14th St., Los Angeles, Cal.
Export Office H. M. Hein, Room 1332 Knickerbocker Bldg., 152 W. 42nd St., New York.
Flack Equipment Co., Dayton, Ohio.
Flack Equipment Co., 1005 Summit St., Toledo, Ohio.
Fickelssen-Finney Equip't Co., 3620 Laclede Ave., St. Louis, Mo.
Good Roads Equipment Co., 1720 Lake St., Kalamazoo, Mich.
J. G. Hopkins, 3171 W. 111th St., Cleveland, Ohio.
Ideal Concrete Mchy. Co., 1374 Wrigley Bldg., Chicago, Ill.
Interstate Mchy. & Supply Co., 1006 Douglas St., Omaha, Nebr.
Francis H. James, 16th and Kirkham St., Oakland, Calif.
G. C. Kenney, 410 New York Life Bldg., Kansas City, Mo.
A. W. Knox, 208 Empire Life Bldg., Indianapolis, Ind.
LaLance Equipment Co., 713 Second Ave., Huntington, W. Va.
Landes & Co., 246-248 W. South Temple, Salt Lake City, Utah.
Lloyd B. Lent, West 8th St. and Southern Ry., Charlotte, N. C.
Lloyd B. Lent, 701 Medical Bldg., Asheville, N. C.
John C. Louis, 221 S. Eutaw St., Baltimore, Md.
Joe Lyons Machinery Co., 112 N. Louisiana St., Little Rock, Ark.
J. L. Latture Equipment Co., 354 Belmont St., Portland, Ore.
Minneapolis Equip't Co., 309-311 5th St., So., Minneapolis, Minn.
O'Neal Tool & Supply Co., 3564 Dix Ave., Detroit, Mich.
Ruane Machinery Co., W. Robinson & Dasher Sts., Pittsburgh, Pa.
I. E. Schilling Co., 125 N. E. Sixth St., Miami, Fla.
Star Machinery Co., 1731-1741 First Ave., South, Seattle, Wash.
Albert Strouse, Box 1107, Houston, Texas.
Waldo Bros. & Bond Co., 202 Southampton St., Boston, Mass.
Lee T. Ward Co., 617 Filbert St., Philadelphia, Pa.

IDEAL
TRADE MARK REG. U.S. PAT. OFF.

IDEAL

THE IDEAL CONCRETE MACHINERY CO.

5012 SPRING GROVE AVE. CINCINNATI, OHIO

TRADE MARK IDEAL REG. U.S. PAT. OFF.

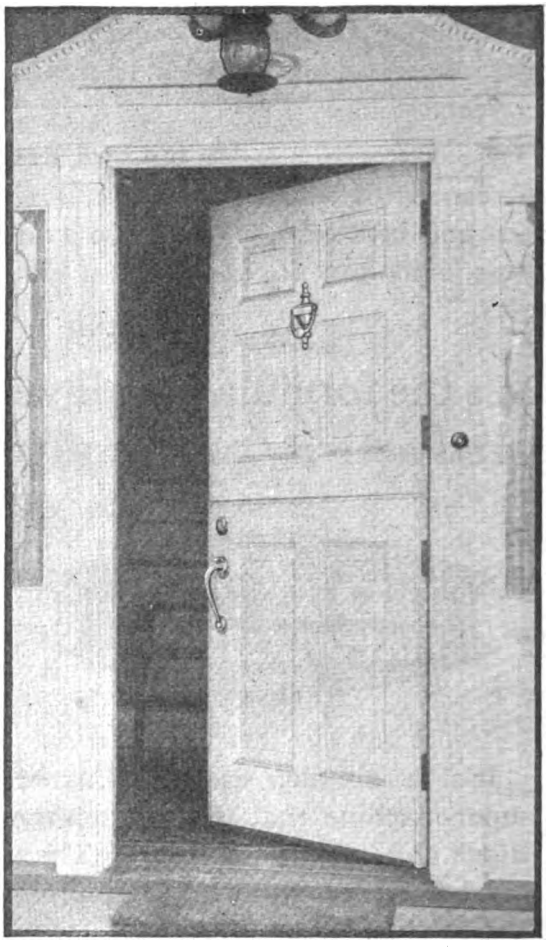
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Build for tomorrow and *use Sargent Hardware*

THIS is the Sargent message to prospective home buyers and builders through the advertising pages of foremost magazines. "Build for tomorrow!" This must be the big idea behind the plans of every speculative builder, every contractor builder—indeed of every man or business seeking to survive today.

Sargent Locks and Hardware of solid, time-resisting brass or bronze will help you build for tomorrow. The slight extra cost is more than justified by doors that swing smoothly on quiet hinges. Knobs and handles that are beautifully designed and lastingly built. Lock sets and window fasteners that insure protection and faultless service.

Your prospective buyers or your clients almost invariably judge the worth of your building by the appearance and operation of details such as these. The prestige-building praise or costly criticism to come will spring, as you well know, almost entirely from so-called "little things."



Sargent Hardware for buildings of every style and price

SARGENT & COMPANY, *Hardware Manufacturers,* 52 Water Street, New Haven, Conn.

SARGENT
Locks & Hardware

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SARGENT
Tools & Hardware



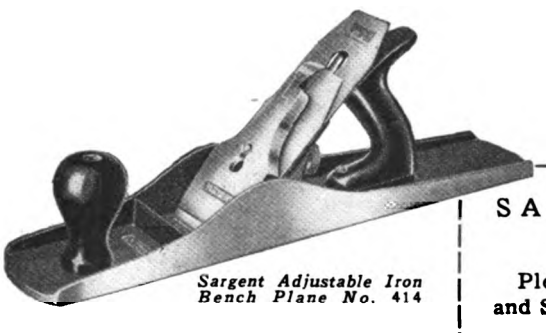
You wouldn't try to use a razor blade as the cutter of your plane

NOR a hefty axe! But you do want the cutter to combine as much as possible of the keenness of the one and the strength of the other. And that's exactly the combination we've gotten with chromium steel.

If you have ever used a Sargent Plane, you know that chromium steel is just the best metal ever put into the cutter of any plane. Every Sargent Plane will demonstrate that fact. From the smallest to the largest, they've all got cutters of this remarkable steel.

Try the Auto-Set Bench Plane No. 714, which is shown above, or the Sargent 414 (illustrated below) if that's your favorite type. The cutter goes through the toughest wood with a minimum of pressure. It cuts "clean." It holds its edge over a longer period of service, and yet is comparatively easy to sharpen. It stands hard knocks. It is strong!

Your dealer, or one nearby, handles Sargent tools. He'll be glad to show them to you and let you try them yourself. We want to send you free booklets which illustrate and describe the many special points about Sargent Planes and Squares. Simply fill in the coupon and mail it today.



Sargent Adjustable Iron Bench Plane No. 414

SARGENT & COMPANY, *Manufacturers*
52 Water Street, New Haven, Conn.

Please send me, without cost, the booklets on Sargent Planes and Squares.

Name.....

Address.....

.....

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Why Some Boilers Are Better Than Others For Burning Oil

THERE is a great difference in the adaptableness of boilers for burning oil. Some actually burn oil so poorly as to make it more costly than coal. It largely has to do with the proportions of the flue ways and the length of the fire travel.

The Burnham Round Type Boiler burns oil very efficiently, but a much higher degree of efficiency can be obtained by using the Burnham Sectional Boiler. This type of boiler has an unusually long back and forth fire travel. The last possible vestige of heat is utilized.

Furthermore, the vibration and noises of combustion are reduced to a minimum in the long fire travel. They do not reach the chimney. This is a strong point in favor of Burnhams. Burnhams help noisy burners to be less noisy.

So successful have Burnham Boilers proven under most severe oil burning tests, that some of the leading oil burner concerns are using Burnhams in their demonstration rooms.

Many of the big oil supply concerns urge their use.

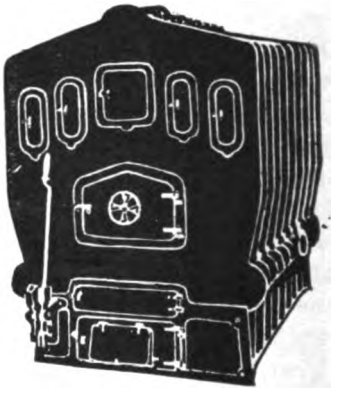


Round Burnham Sectional

Write Us

Houses equipped with oil heat are going to have the edge on others. It's a selling point you can't afford to overlook.

Write us and we'll gladly give you detailed facts about Burnham Boilers and why they burn oil so efficiently.



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Burnham Boiler Corporation

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KOEHRING DANDIE Light Mixer

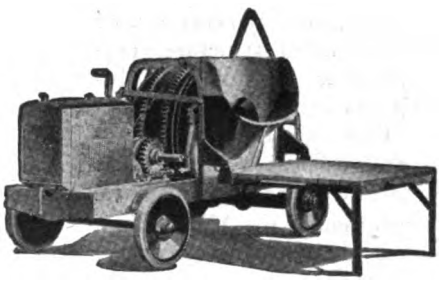


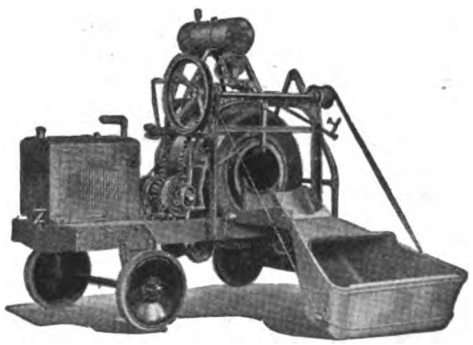
Dandie Light Mixer

107-S. Two or four cylinder gasoline engine. Power charging skip, or low charging hopper and platform. Rubber tired steel disc wheels or steel rimmed wheels. Complies with A. G. C. Standards.

Send back the coupon

VALUE —Such as Never Before Seen in the Light Mixer Field!





STILL within the price range for light mixers, this 7 ft. Dandie Model offers extraordinary values!

A heavy duty, four cylinder, radiator cooled gasoline engine, completely enclosed in a steel housing.

Completely enclosed transmission always running in an oil bath, and mounted on shaft revolving in roller bearings. Steel disc wheels with rubber tires or regular steel rimmed wheels. Beveled edge, chilled drum rollers, pinned to shaft which turns in big bearings! Koehring double gear drum drive!

In every bearing—every detail—you'll find the reliable Koehring construction the surest insurance of reliability and long, trouble-free service life!

Light Weight—just the balanced light weight to be hauled on its rubber tires behind your car or truck and to lose no time between job and job.

This Dandie Model has been tested and tried by *overwork* and abuse—and it's more than worthy of the Koehring *name*.

For high speed operation—solid, substantial construction and light weight portability—this Dandie has established new values and standards in the light mixer class.

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PAVERS, MIXERS—GASOLINE CRANES, DRAGLINES AND SHOVELS

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Send Back the Coupon for Full Details!

Take our word for it, you will be putting yourself in the way of extra profits and extra value if you learn all about the details of this Dandie Model before you decide on a 7 ft. light mixer. No obligations. Send back the coupon today!

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Without obligation to me of any kind send me free information about the Koehring Dandie Light Mixer.

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MANY a man who today owns a desirable piece of property is prevented from erecting on it a valuable, income-earning building by just one thing—financing. But many a man in just this position has been enabled to go ahead with his project by just one thing—the Miller Plan of Financing.

The Miller Plan brings to owners and builders the financial aid of men and women in all parts of the country who are satisfied investors in Miller First Mortgage Bonds. Though they are strangers personally, they are able and willing to aid because of the fine record of safety combined with liberal earnings that Miller Bonds possess.

Accept their help.

Whether you contemplate taking the contract for the erection of a hotel, apartment building or office structure, you would do well to consider the advantages of the Miller Plan of Financing.

The contractor stands no chance of suffering a loss. Periodic disbursements are made as the building is constructed. Building is sufficiently financed at the outset. This financing is secured by a first mortgage on land and building, extending over a long period of time. Convenient payments, out of income from the completed structure, take care of interest and reduce amount of indebtedness. Financing less expensive. No shopping for money. Best type building is produced. Architect's ideas are carried out. Work is not held up due to finances.

By the simple operation of the Miller Plan, the owner is relieved of the worrisome details of the ordinary loan.

From $250,000 *to* $1,000,000 *and more*

We are ready to place at the disposal of owners any amount from $250,000 up, which will be secured by a first mortgage on your land, building and equipment.

Find out more about how this Miller Plan of Financing operates. Read enthusiastic letters from owners and builders for whom we have negotiated first mortgage bond issues. *Write for Booklet* L-601.

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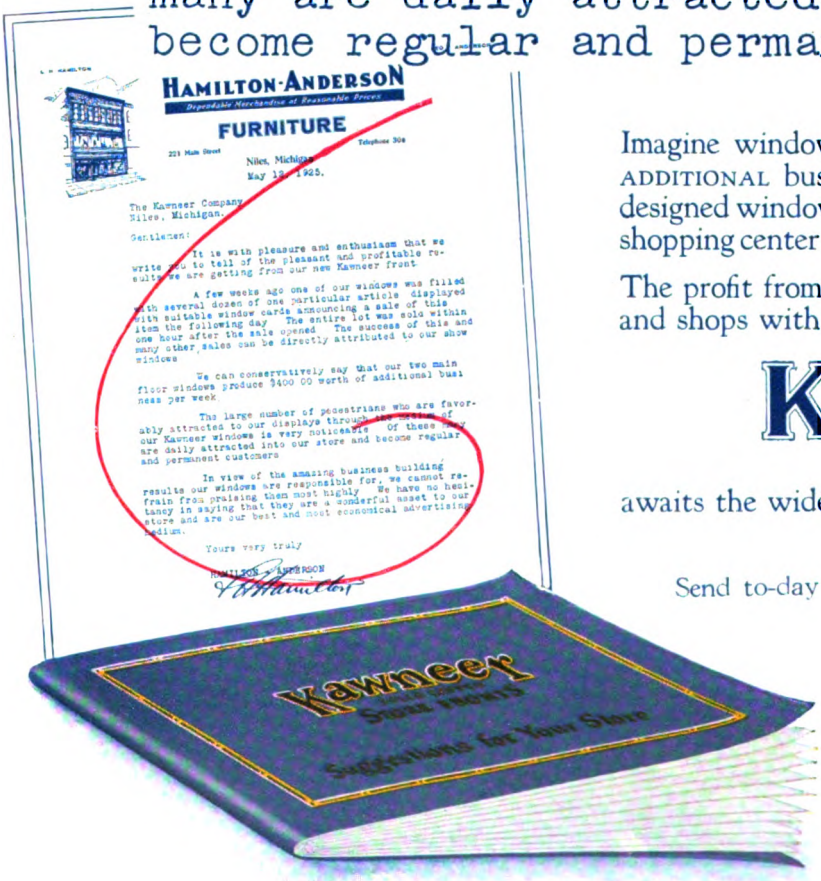
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many are daily attracted into our store and become regular and permanent customers.



Imagine windows in a town of 12,000 producing $400.00 ADDITIONAL business per week. Yet a pair of KAWNEER designed windows did just that in Niles, Michigan,—with a shopping center of more than 100,000 less than 10 miles away.

The profit from new buildings or the remodeling of stores and shops with

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STORE FRONTS

awaits the wide-awake contractor and builder.

Send to-day for Contractors' Design Book

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Send me free "Contractors' Design Book".

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To Merchants Going Into *New Buildings*

Proper Display Windows Are Vital to Success

Contractors who convince their clients of the direct relation of sales to properly designed display windows can secure much profitable business.

The KAWNEER Company, originators of hollow metal store fronts, have studied merchants' display problems for twenty years. As a result KAWNEER Solid Copper Store Fronts are designed to meet the merchant's needs for maximum display facilities, affording permanency, and, through its spring-like resilient grip, protection against plate glass breakage.

A feature of KAWNEER which is of vital importance to the contractor is the ease of installation.

See KAWNEER Store Front illustrated on preceding page

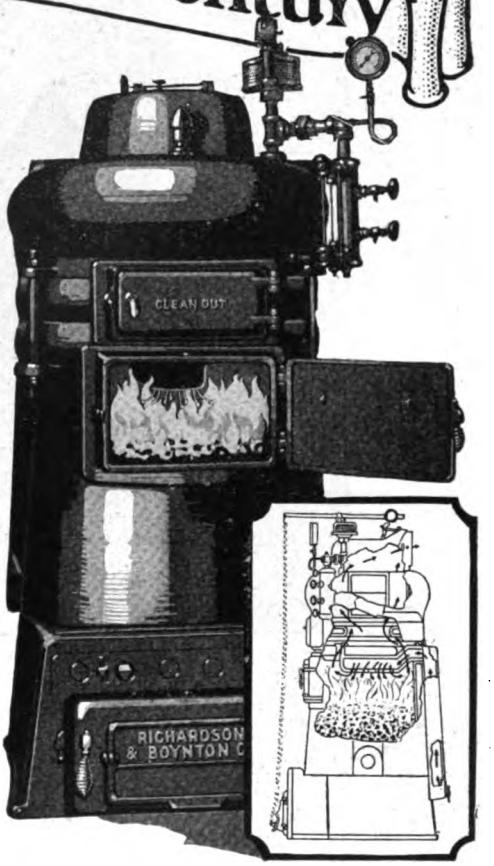


Over a quarter of a million in twenty years

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The Heating Sensation of the Century

Burns Soft Coal *Without Smoke or Soot!*



Smokeless Boilers have been eliminating soot and smoke in modern factories for many months.

Now for the first time soft coal can be used in *the finest homes* without any more dirt than would be caused by anthracite coal, oil or gas! Science has finally solved the problem of using soft coal in the home with the new Richardson Smokeless Round Boiler—the Heating Sensation of the Century. The Richardson Smokeless Round Boiler is ready for business *this* season. It has been tested under all conditions. OK'd by Smoke Prevention Bodies and Heating Engineers. It is ready for the public and the public is waiting.

Send the coupon at once for descriptive literature, full details, specifications, costs, etc. Act now and take advantage of the first reaction to our large advertising campaign.

Turning Smoke into Heat

In the Richardson Smokeless Round Boiler the fire is made as in any other boiler.

Air entering the bottom draft through the ashpit door and working upwards through the coal produces the ordinary combustion or coking which liberates the gases and other products of combustion.

At the top of the fire chamber, above the fire bed, there is injected a blast of super-heated air, raised to a minimum temperature of 800 degrees.

Special Hot Blast

This hot blast uniting with the liberated gases, smoke particles, etc., produces a blue-white flame of great intensity.

The blue-white flame fills the fire-pot and flues, giving to this boiler an evaporating capacity which is not even approached by any other round boiler.

Clean Heating Surfaces

The result is that instead of flues being covered with soot, as is usual with boilers burning soft coal, all of the exposed surfaces of this boiler become and remain prime heating surfaces.

Simple to Operate

This boiler is run the same as an ordinary Richardson boiler. There are no complicated attachments—nothing to get out of order. Feed it—shake it—remove ashes—that's all.

RICHARDSON *Smokeless* ROUND BOILERS

for Steam, Hot Water and Vapor

In Better Homes
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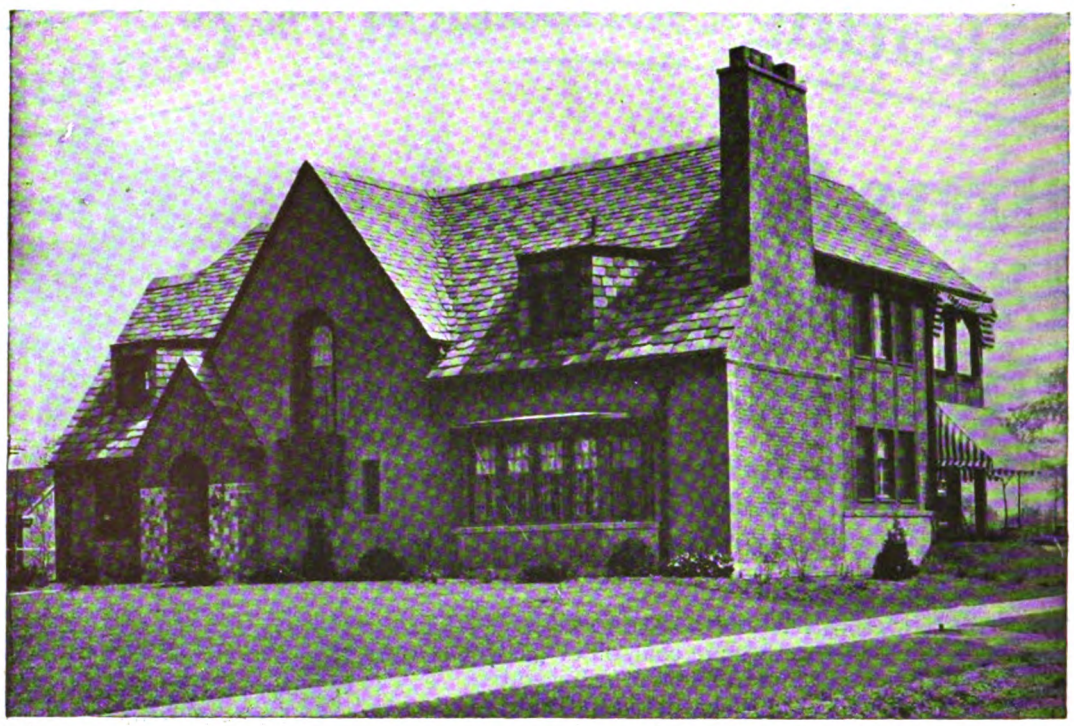
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Please send full information on your new Smokeless Round Boiler.

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THE wonderful texture of Slate—its dignified appearance—the ease with which it adapts itself to any style of building are important factors which add value to your building at a glance. A good roof indicates that good materials are used throughout the structure.

Why take a chance on imitations and substitutes when the original is obtainable at only a slight additional cost? If you have to cut down, do not sacrifice your roof because here the most wear occurs.

Play safe—investigate first.



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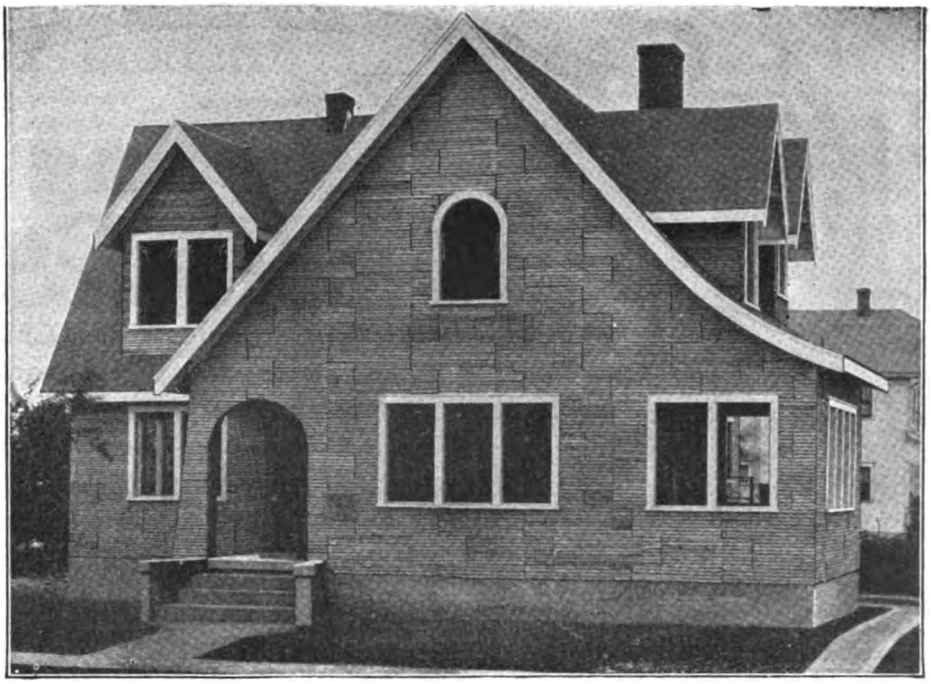
"A Happy Combination"

FOR THE BUILDER WHO CARES

Home Designed and Constructed by The Home Building and Development Company Dayton, Ohio

Stucco Contractor National Stucco & Flooring Co.

KEYLOCK USED THRU-OUT
Observe joints over studs automatically broken.



RUSSEL P. EDE, Pres. A. BURNELL HILL, Vice Pres. ALBERT S. PRIDE, Secy & Treas.

The Home Building and Development Company
16-17 MUTUAL HOME BUILDING
DAYTON, OHIO

Oct. 5th, 1925.

The Flint-Rock Stucco Co.,
262-64 Fourth Street Arcade Bldg.
Dayton, Ohio.

Gentlemen:-

We feel entirely justified in telling you of the success we have had with your products and particularly KEYLOCK, your new base for stucco and plaster.

The many new features of construction and design it incorporates, have made it clear that we are "playing safe" with our clients when we specify KEYLOCK. Our workmen are pleased with its ease of application, due to its automatically breaking joints. We have also been well impressed with the double dovetailed lock created through your patented cuts. Moreover the waterproofing treatment of KEYLOCK'S wood strips should be an important factor in its success due to its elimination of warping and distortion.

You are no doubt aware that The National Stucco and Flooring Company, your local distributors, have completed a number of homes for us over KEYLOCK, using FLINT-ROCK ALL-MINERAL STUCCO and ARCHITEX FINISH, your color finish coat. These homes are a matter of pride with us and their owners. Yes, you can tell anyone we are "sold" on FLINT-ROCK Products.

We extend to you our very best wishes for your continued success.

Yours very truly,

THE HOME BUILDING & DEVELOPMENT CO.
Russel P Ede
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EE-SW

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GOES ACROSS

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KEYLOCK is endorsed by research laboratories, testing engineers, leading architects, dealers, contractors and home owners, as a superior base for stucco and plaster. It takes the place of sheathing, building paper, furring strips, lathing and nails. Keylock is an excellent insulator and sound deadener. Strength tests have been overwhelmingly in KEYLOCK'S favor. Being a patented product it incorporates many new features of construction exclusively.

Mixed car shipments of KEYLOCK are made with FLINT ROCK'S ALL-MINERAL STUCCO and ARCHITEX FINISH. This represents real economy to the purchaser, buying a complete wall unit in one carload.

FLINT ROCK'S ALL-MINERAL STUCCO is an Oxychloride Cement of surprising strength, beauty and durability.

ARCHITEX FINISH is a specially prepared finish coat, furnished in many soft rich shades of color.

Write for particulars.

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Reducing Operating Costs

John F. Rahn, general contractor of East Chicago, Ind., has used Fordson power for three years hauling supplies to his various jobs, and states that it has effected many reductions in his operating costs. Other contractors using Fordson power have had the same experience, and many utilize it still further to carry on the work of hoisting, excavating, and various other power operations.

Before estimating on your next contract, plan to see your nearest Authorized Ford Dealer and secure from him reliable figures covering the various uses of Fordson power in building operations.

Fordson Tractor $495 f. o. b. Detroit

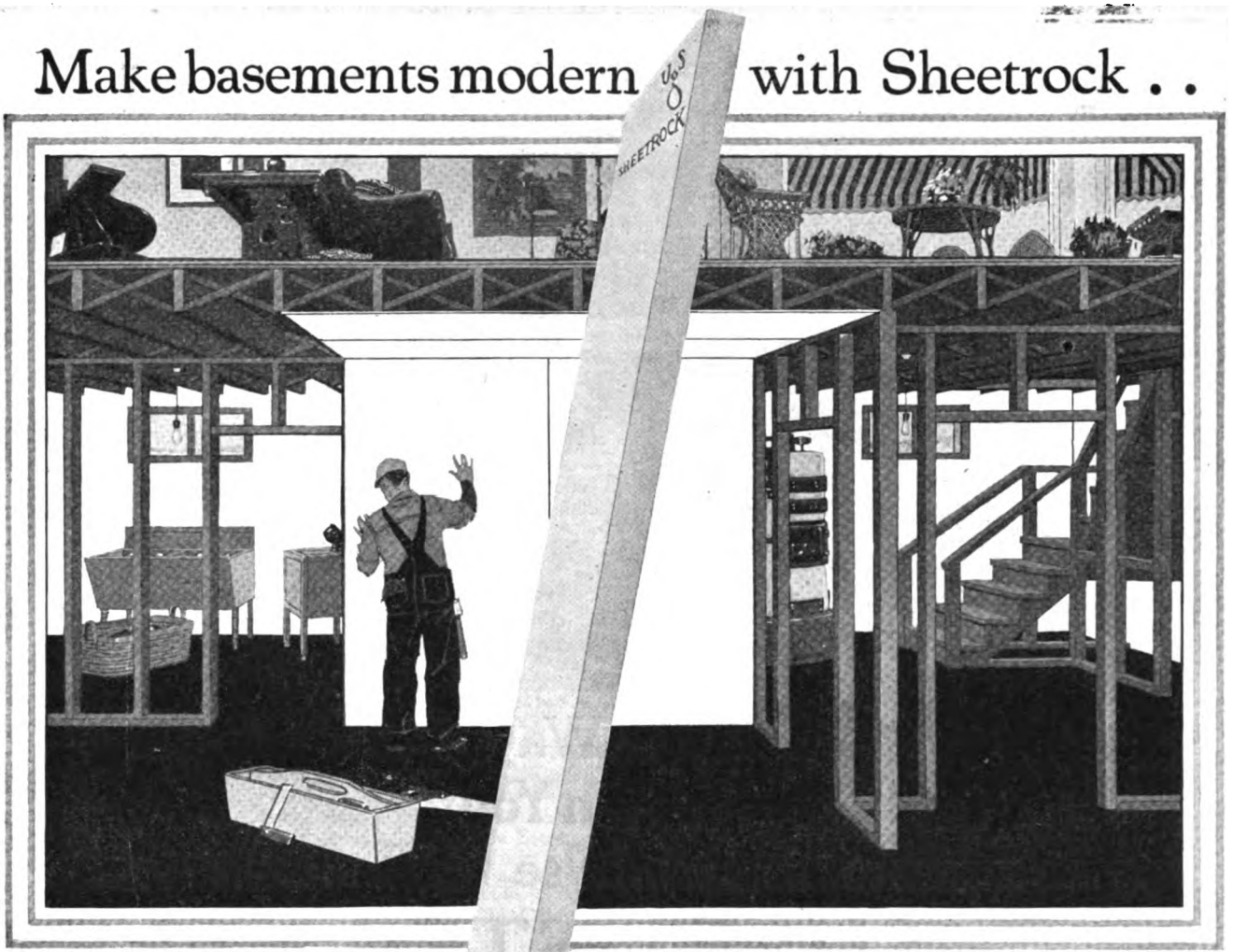
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Make basements modern with Sheetrock . .



The day of the old, dismal basement is gone. In the modern home the basement is one of the show places of the house, one of the things the visiting friend must see and appreciate. It is solidly walled and ceiled, partitioned off into sections suited to different uses, and all neat and clean and comfortable enough to live in.

Sheetrock is, of course, the logical material to use for basement linings. Made from gypsum it is fireproof, heat-insulating and permanent. Comes in broad sheets that need only to be nailed to the joists or studding. The first cost is low and there is no upkeep.

Builders and realtors are using basements lined with Sheetrock because it puts extra sales and rental value in their houses and apartments. Successful contractors go after Sheetrock basement remodeling jobs to keep busy and make more money "between seasons."

Your dealer in lumber or builders' supplies sells Sheetrock. Write us for a sample of Sheetrock and a copy of our Time Book for builders. The coupon will bring them. Mail it today!

Sheetrock is inspected and approved as an effective barrier to fire by the Underwriters' Laboratories, Inc.

UNITED STATES GYPSUM COMPANY

SHEETROCK

Reg. U. S. Pat. Off.

The *FIREPROOF* WALLBOARD

. . . . . *Clip and mail this coupon today!* . . . . . .

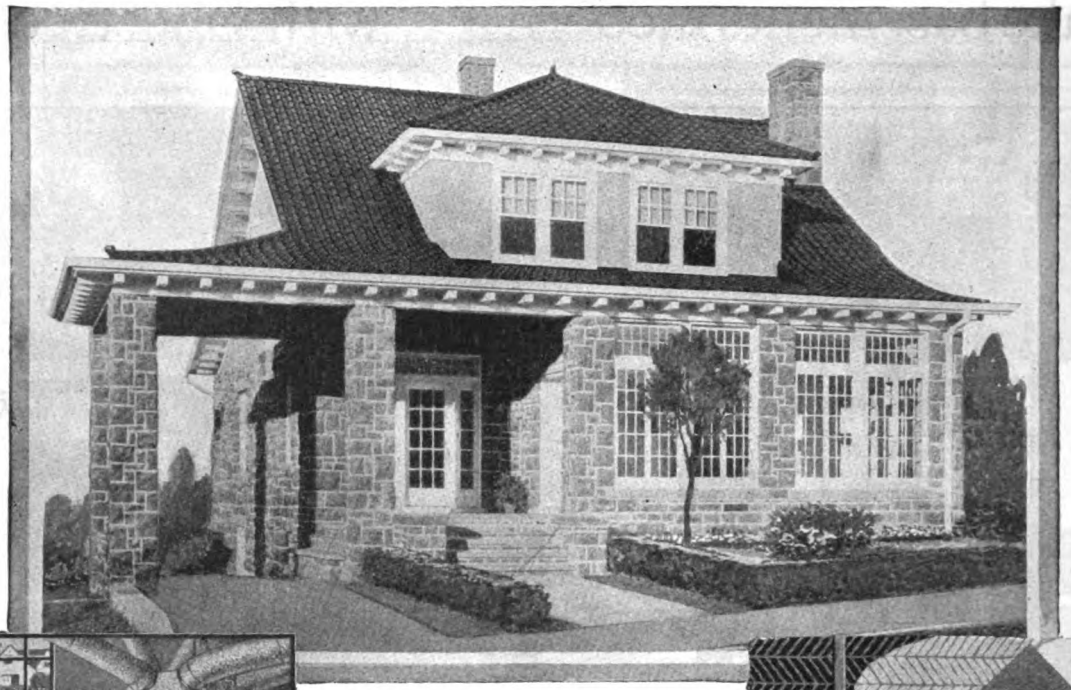
UNITED STATES GYPSUM COMPANY, *General Offices:* Department 3, 205 W. Monroe St., Chicago, Ill.
Please send me the Sheetrock sample and the free Time Book.

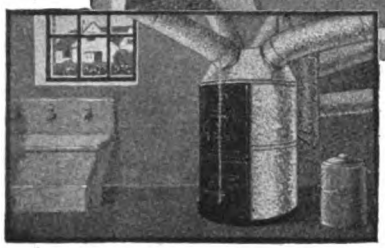
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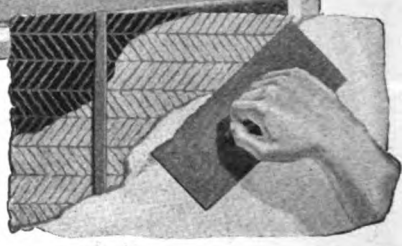
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Sheetrock comes in standard sizes: ⅜ inch thick, 32 or 48 inches wide and 6 to 10 feet long

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Three Ways in Which You Can Use

SHEET STEEL

For Better Homes—and Save Money

THE roof of a house is all-important not only from the standpoint of long-lived resistance to weather but also because almost more than any other feature the roof "makes or breaks" the architectural attractiveness of the building.

The house pictured above is roofed with Spanish Mission Tile made from Sheet Steel. Such a roof can be finished in any desired color, provides the variation of light and shadow so much desired for an attractive roof, is exceedingly durable and its cost is decidedly reasonable.

For interior walls and ceilings the use of Metal Lath insures against that common enemy of good appearance in the home (cracked plastering), saves replastering and decorating bills, is highly rated by insurance authorities because of its great fire resisting value and on the average costs little or no more, in place, than ordinary construction.

Warm-air furnaces as now installed under the New Standard Code add enormously to the value of any house because they provide *healthful* heat—cut fuel costs—and permit easy control of heat volume in variable weather. Yet they generally cost considerably less than any other type of efficient heating plant.

Ask us to send you booklet, "The Service of Sheet Steel to the Public"

SHEET STEEL
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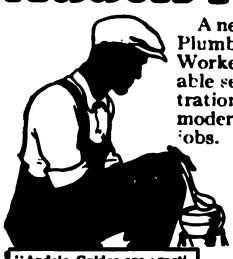
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Keep Right On Building This Winter

Bears and ground hogs still hibernate. But engineers, architects, contractors and building owners don't let winter drive them to cover.

They know that "time is money"— that winter is just as good as any other time to build; so they keep on building in cold weather.

The building industry, as well as the public, recognizes that this practice is not only practical but usually profitable for all concerned.

Winter construction means that builders can continue their work without interruption through twelve months. The builder's crew, which has been trained to maximum efficiency, can be kept intact and steadily employed with profit to everyone.

Winter construction by providing quicker occupancy, brings to the owner an earlier return on his investment.

During the winter there are few delays in getting material. Sand and stone are usually nearby; cement is obtainable on short notice practically anywhere. And these materials come to you ready for use—you make your building right on the job.

In winter, as in summer, concrete is the last word in speed of construction—the champion time saver.

If you have not yet experienced the advantages of winter building, plan now to do so.

And remember, where "time is money" use concrete.

* * *

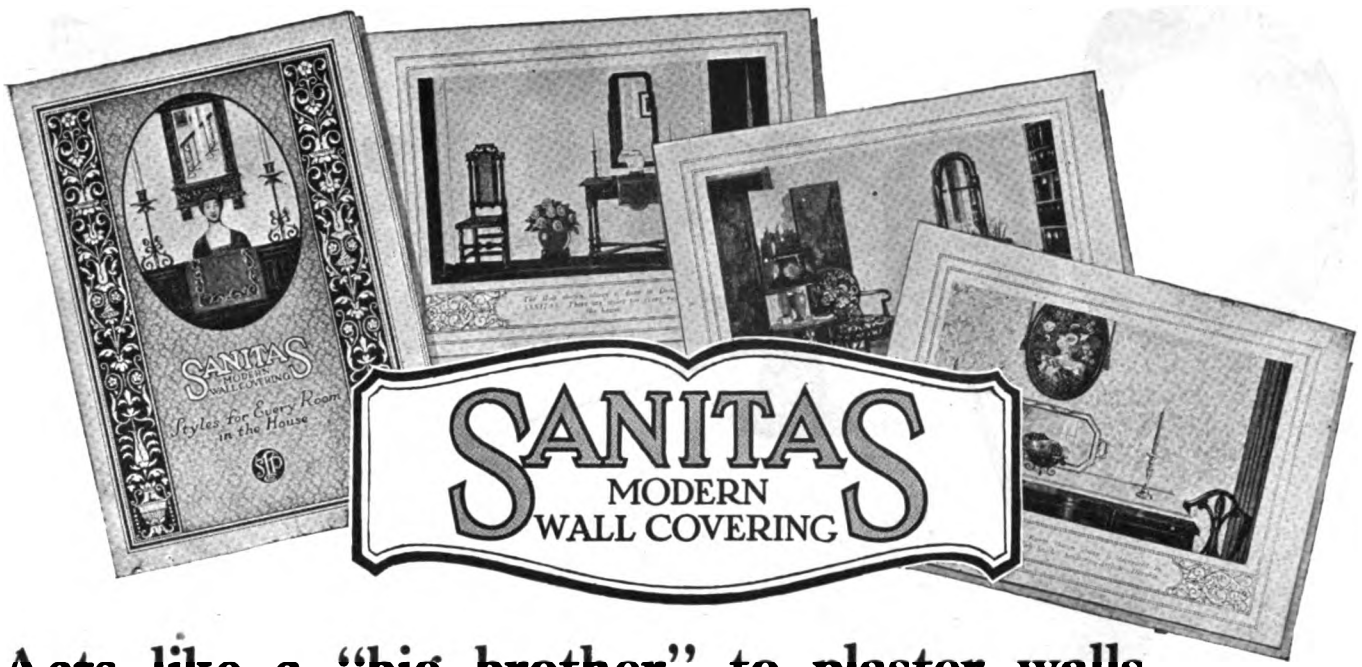
The few fundamental principles of cold weather construction are simple and easy to apply. If you are not familiar with them, ask our nearest District Office for literature on winter building. There is no obligation.

PORTLAND CEMENT ASSOCIATION

A National Organization to Improve and Extend the Uses of Concrete

Atlanta	Columbus	Indianapolis	Minneapolis	Parkersburg	San Francisco
Birmingham	Dallas	Jacksonville	Nashville	Philadelphia	Seattle
Boston	Denver	Kansas City	New Orleans	Pittsburgh	St. Louis
Charlotte, N.C.	Des Moines	Los Angeles	New York	Portland, Oreg.	Vancouver, B.C.
Chicago	Detroit	Milwaukee	Oklahoma City	Salt Lake City	Washington, D.C.

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Acts like a "big brother" to plaster walls

"Rich windows that exclude the light and passages that lead to nothing"

Styles for every room in the house

Plain and Pastel Flat Finish
tints that can be hung as they come, or stenciled, frescoed, or Tiffany blended.

Decorative Flat Finish
conventional and foliage patterns, stripes, mottles, and tapestry, grass-cloth, leather and fabric effects.

Brocade and Metallic Finishes
in embossed effects for paneled treatments and trimmings.

Enamel Finish
plain colors, tile effects and decorative patterns, for kitchens, bathrooms, etc.

SANITAS STANDARD STP TEXTILE PRODUCTS BRAND REG. U.S. PAT. OFFICE



are no worse architecture than a wall covering that is only a pretty mask for white plaster.

Sanitas has a real purpose; performs a definite and valuable constructional function; is an investment, not an expense.

Sanitas is made on cloth; it protects the walls, prevents many cracks, restrains the development of others, and does not itself crack, tear, peel or blister. The surface is heavily coated with durable oil colors; it prevents the penetration of moisture and air to cause crazing of the plaster, is impervious to stains, and can be wiped clean with a damp cloth.

New walls as soon as the plaster is dry, old walls when the cracks have been pointed up, plasterboards with the joints properly filled—it's all the same to Sanitas. Use it on any flat surface; it comes in styles for every room in the house.

Our Architects' Service Bureau is prepared to discuss, in your own language, the relation of Sanitas to your architectural or building problems, to send you samples and literature, and to name sources of supply, if you ask us.

THE STANDARD TEXTILE PRODUCTS CO.
320 BROADWAY, NEW YORK
Dept. B.A.

ARCHITECTS' SERVICE BUREAU
The Standard Textile Products Co.
320 Broadway, Dept. B. A., New York. .....
Date

Gentlemen:—Please send me booklets on

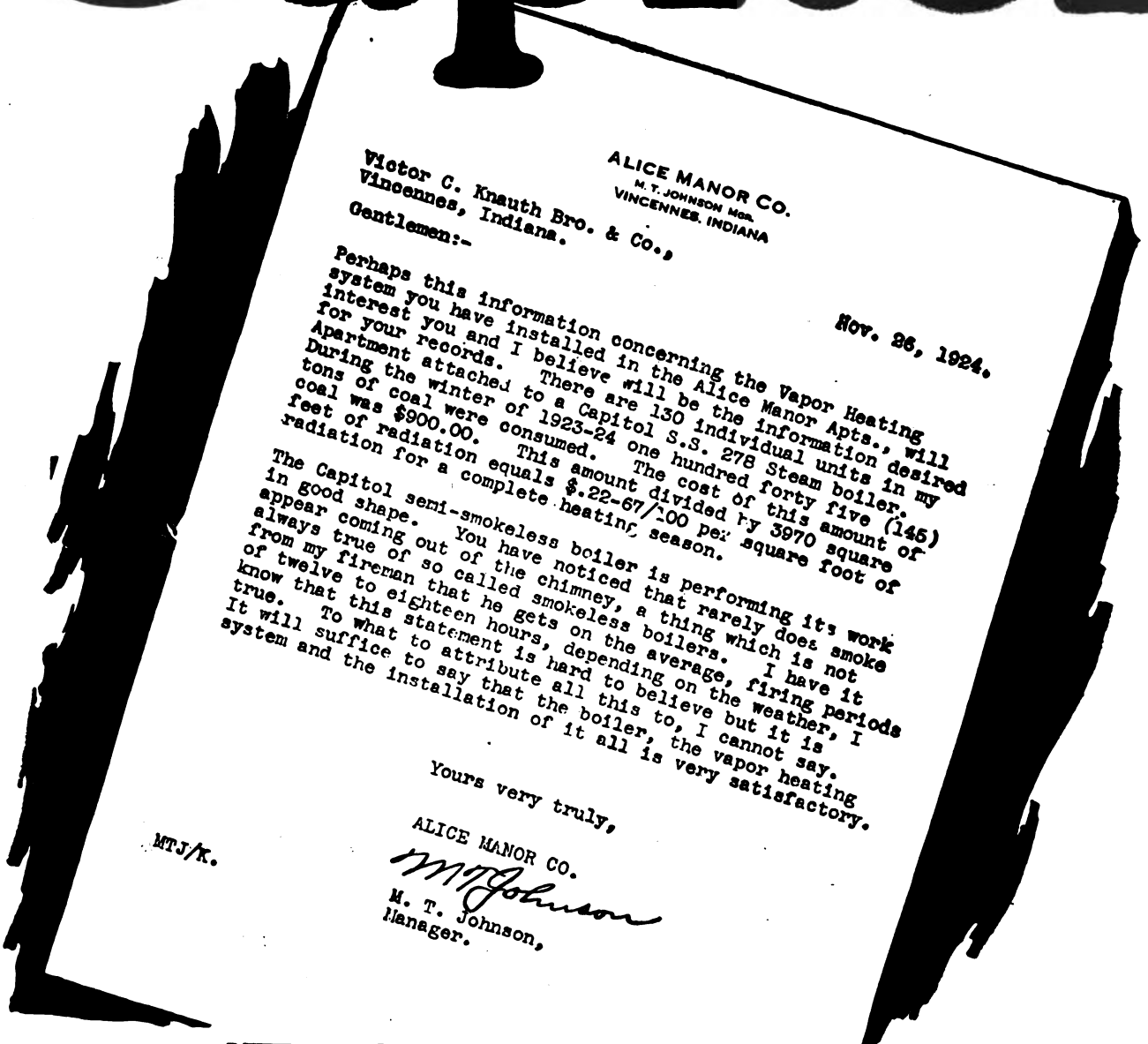
[ ] Sanitas Brocade Finish Wall Covering
[ ] What They Say About Sanitas Modern Wall Covering
[ ] Hints to Decorators
[ ] Sanitas Modern Wall Covering and Its Uses
[ ] Information for Decorators

FIRM NAME.....

ADDRESS.....

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Capitol



ALICE MANOR CO.
M. T. JOHNSON Mgr.
VINCENNES, INDIANA

Victor C. Knauth Bro. & Co.,
Vincennes, Indiana.

Nov. 26, 1924.

Gentlemen:-

Perhaps this information concerning the Vapor Heating system you have installed in the Alice Manor Apts., will interest you and I believe will be the information desired for your records. There are 130 individual units in my Apartment attached to a Capitol S.S. 278 Steam boiler. During the winter of 1923-24 one hundred forty five (145) tons of coal were consumed. The cost of this amount of coal was $900.00. This amount divided by 3970 square feet of radiation equals $.22-67/100 per square foot of radiation for a complete heating season.

The Capitol semi-smokeless boiler is performing its work in good shape. You have noticed that rarely does smoke appear coming out of the chimney, a thing which is not always true of so called smokeless boilers. I have it from my fireman that he gets on the average, firing periods of twelve to eighteen hours, depending on the weather, I know that this statement is hard to believe but it is true. To what to attribute all this to, I cannot say. It will suffice to say that the boiler, the vapor heating system and the installation of it all is very satisfactory.

Yours very truly,

ALICE MANOR CO.

M. T. Johnson

M. T. Johnson,
Manager.

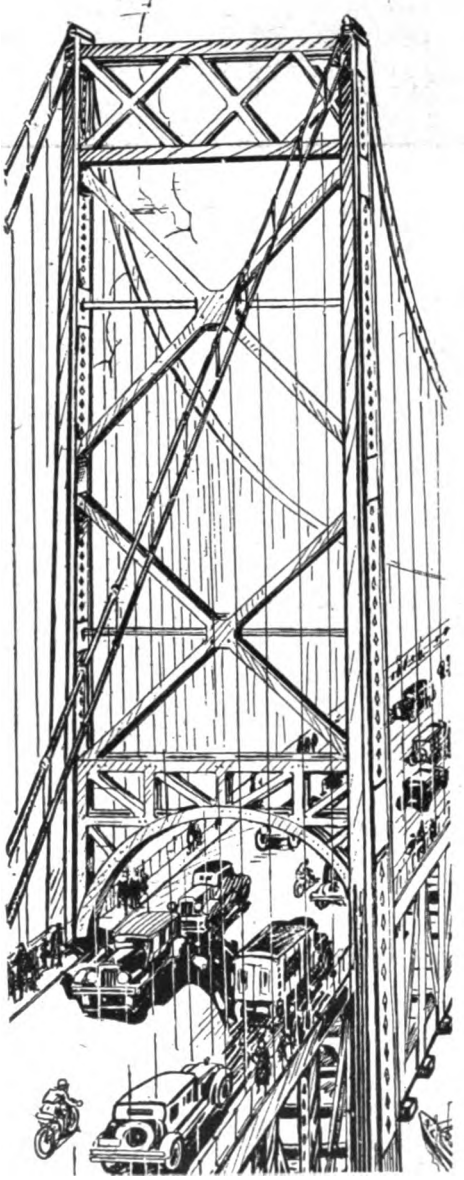
MTJ/K.

UNITED STATES RADIATOR CORPORATION
General Offices, Detroit, Michigan

Boilers

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To last— *through the Ages*



PENNSYLVANIA PORTLAND CEMENT was used in the massive concrete foundations of the Bear Mountain Bridge across the Hudson to insure a structure that would be as permanent as the hills which it connects.

Pennsylvania Portland Cement is a guarantee of reliability. Not only does it exceed U. S. Government standards but in the entire process of manufacture, from the selection of the finest cement rock to the final product, every step must insure quality. You may be sure that no better cement can be made by any process or by any method.

The Pre-test

Thirty days or more before any Pennsylvania Portland Cement is ground for shipment, we thoroughly test the fused clinker from which cement is made. A miniature grinding mill installed in our laboratories duplicates actual process of manufacture. This makes it possible to know that the quality of Pennsylvania Portland Cement is certain *every time*. Every barrel exceeds the rigid U. S. Government standard requirements.

This reputation for quality has been the determining factor for the selection of Pennsylvania Portland Cement by architects and engineers in such important work as the New York and Brooklyn subways, the Hill to Hill bridge at Bethlehem, Pa., the Polo Grounds, the Bear Mountain Bridge, the American News Co. Building and the Approaches to the Vehicular Tunnels.

PENNSYLVANIA CEMENT COMPANY

Offices:

NEW YORK — PHILADELPHIA
BOSTON — BUFFALO

Plant: Bath, Pennsylvania — *Portland Point, N. Y.*

PENNSYLVANIA
PORTLAND CEMENT

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Hidden Comfort

THE home investment should be in *comfort* as well as in shelter. Walls must turn the fury of a storm . . . . protect *in comfort* those within . . . . . keep excessive heat and cold without . . . . save fuel.

CONSTRUCTION TELLS. A home can be as *permanently* comfortable as the builder wishes to make it. Through the passing of many summers and winters a man never regrets having built *lasting* comfort into the home.

Now and then it seems easy, yet unwise, to slight construction here and there, substituting inferior lumber or less dependable workmanship for the sake of a small saving in first cost. No matter how small the home, the wise investor can appreciate what a tax such folly levies in excessive repair costs and undue depreciation later on.

Good workmanship and dependable lumber cost little more in the first place. Long-Bell trade-marked lumber is giving hidden comfort in many a home . . . . making a better home investment. It offers the same dependability for years to come to any builder today.

Ask Your Retail Lumber Dealer

THE LONG-BELL LUMBER COMPANY
R. A. LONG BUILDING — Lumbermen Since 1875 — KANSAS CITY, MO.

Long-Bell Douglas Fir

Users of this product give voluntary praise of its value in construction.

Long-Bell timber holdings in the Pacific Northwest are of the finest stands of virgin Douglas Fir.

Manufacturing plants at Longview, Wash., which produce Long-Bell trade-marked Douglas Fir lumber products are equipped with the latest type machinery, completely electrified, and under the most skilled supervision.

Long-Bell Oak Flooring

This product has been found dependable and has met the most exacting demands of builders everywhere for many years. It is unsurpassed in beauty, excellence of manufacture and economy in laying and finishing.

A booklet, "The Perfect Floor," containing information on laying, finishing and the care of oak flooring, will be sent free on request.

Varied Lumber Products

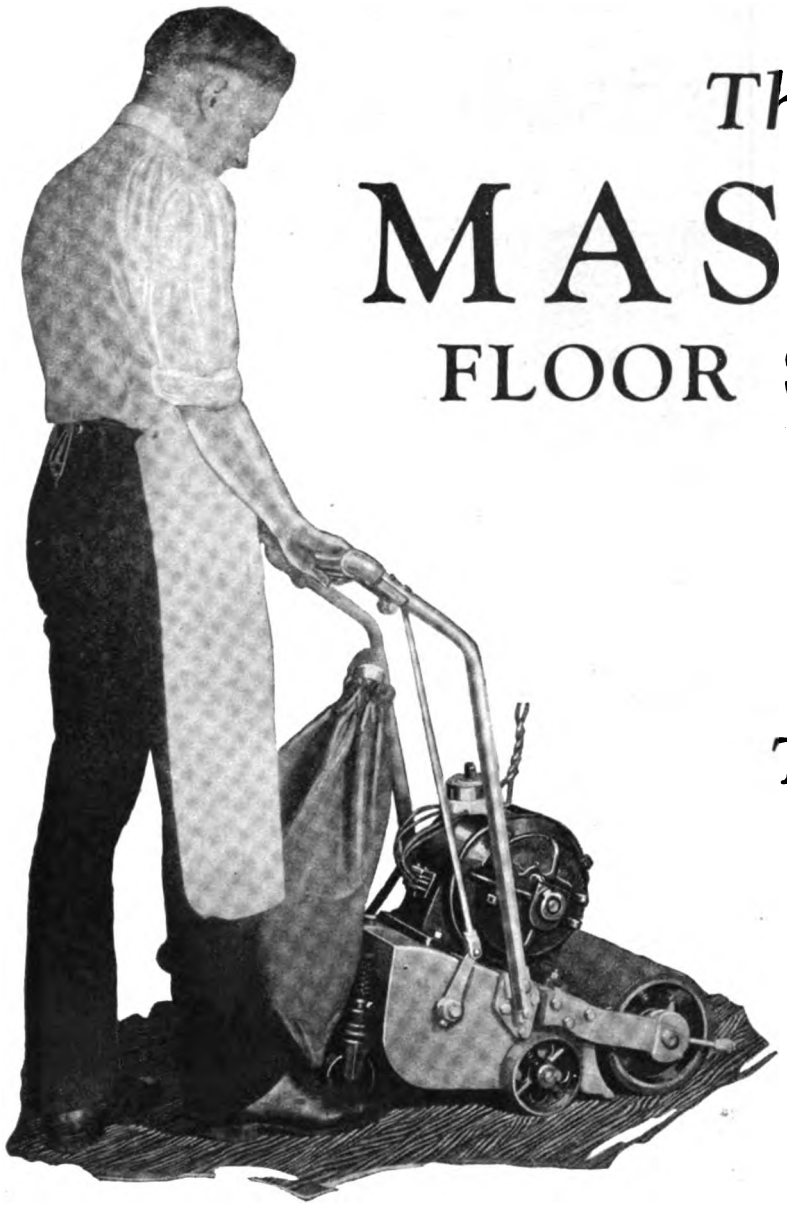
Long-Bell trade-marked lumber products include many items of importance to the builder. Every product has behind it the experience of fifty years as lumbermen, as well as widely recognized standards of production assuring *maximum building value*.

LONG-BELL
Trade Marked LUMBER

Douglas Fir Lumber and Timbers; Southern Pine Lumber and Timbers; Creosoted Lumber, Timbers, Posts, Poles, Ties, Guard-Rail Posts, Piling; Southern Hardwood Lumber and Timbers; Oak Flooring; California White Pine Lumber; Sash and Doors.

K N O W T H E L U M B E R Y O U B U Y

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The MASTER FLOOR SANDER

The Master Is Faster

Weighs only 230 lbs., yet, when operating, 150 lbs. is actually on the drum—a larger proportion of useful weight than any other sander on the market.

Holding back on front bar presses down on rear wheels or up on rear of machine, throwing most of the weight of motor on the drum. No lifting is necessary. Easiest machine on the market to operate. Runs much faster. Cuts faster—makes money faster.

Mail Coupon for Descriptive Folder

MASTER WOODWORKER MFG. COMPANY
612 Brush Street DETROIT, MICHIGAN

Master Woodworker Mfg. Co.
612 Brush Street
Detroit, Michigan

Send me your new folder together with offer showing how I can buy a Master Floor Sander on small payments allowing machine to pay for itself.

Name _____

Address _____

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Murphy In-A-Dor Twin Bed installations are very popular in all high grade apartment hotels, owing to the fact that they allow for flexibility in pleasing guests, being interchangeable from twin to double beds as desired.

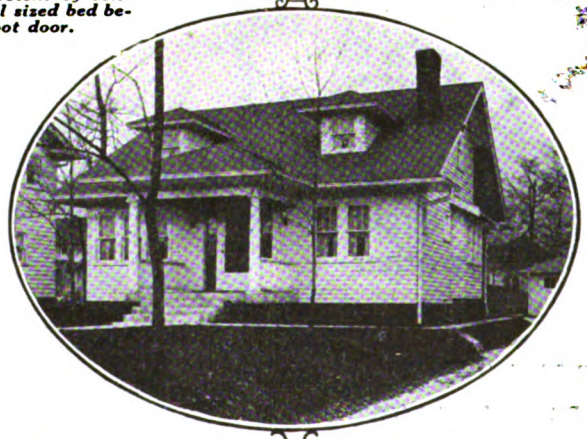


The Murphy In-A-Dor Beds in homes offer additional sleeping accommodations and solve the "extra room" problem by concealment of a full sized bed behind any three foot door.



Thousands of Homes [as well as Apartments and Hotels] are Equipped with Murphy In-A-Dor Beds

WHETHER it be a hotel, a home or a four-family flat, wherever sleeping accommodations are required, the Murphy In-A-Dor Bed idea not only eliminates the cost of building bed rooms, but makes possible complete sleeping comfort. Perfect satisfaction and convenience in limited space permits added living quarters with a greater income from rentals. The type of hotels pictured above which is equipped with Murphy In-A-Dor Beds is proof as to their merits. It costs no more to specify the best.



Write for the New Murphy Blue Print Manual—It's FREE for the Asking

The handiest reference book any architect ever possessed is free for the asking. It is a blue-print manual, a technical guide to save time, trouble and worry for architects all over the United States. There is a blue-print plan to solve every concealed bed problem.

The MURPHY IN-A-DOR BED

THE MURPHY DOOR BED COMPANY

Offices in all Principal Cities

Chicago, Ill.....22 W. Monroe St.
St. Louis, Mo.....315 N. 10th St.
Detroit, Mich..7th Flr., Kresge Bldg.
Birmingham, Ala.....513 N. 21st St.
Cleveland, O.....1140-42 Hanna Bldg.
Kansas City, Mo.....1114 Grand Ave.
Dallas, Tex.....1919 Pacific Ave.
El Paso, Tex.....Neff-Stiles Bldg.
Houston, Texas.....2301 Main St.
New Orleans, La.....319 Dryades St.

New York City.....19 W. 44th St.
Atlanta, Ga.....204 Arcade Bldg.
Seattle, Wash....Terminal Sales Bldg.
San Francisco, Calif.....Crocker Bldg.
Los Angeles, Calif....1807 S. Main St.
Denver, Colo.....1534 Blake St.
Ottawa, Can.....205 O'Connor St.
Montreal, Can.....153 Peel St.
St. Petersburg, Fla. 225 Second Av., S.
Miami, Fla.....234 Columbia Bldg.

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Builders have found a new use for

Ambler Linabestos Wallboard

They've been cutting it into strips and applying it as clapboards. We are now meeting this demand by putting out these clapboard strips already bored for nailing, 6″ by 8′ in the Dutch siding and 8″ by 8′ in the Colonial.

This means that Ambler Linabestos Wallboard—a permanent building material that does not require paint and gives absolute fire protection—can be used at a great saving in labor as the exterior finish for some of the most popular designs of homes. The color is a light buff, just what many people prefer anyhow.

Ambler Linabestos Wallboard has a wide variety of uses in interior construction. Years of use will find partitions of this material without unsightly cracks, because there is nothing about it to warp, twist or shrink. It comes in sheets 48 by 48 and 48 by 96, 3/16″ or ¼″ thick, can be applied by carpenters and can be readily sawed and nailed with ordinary tools.

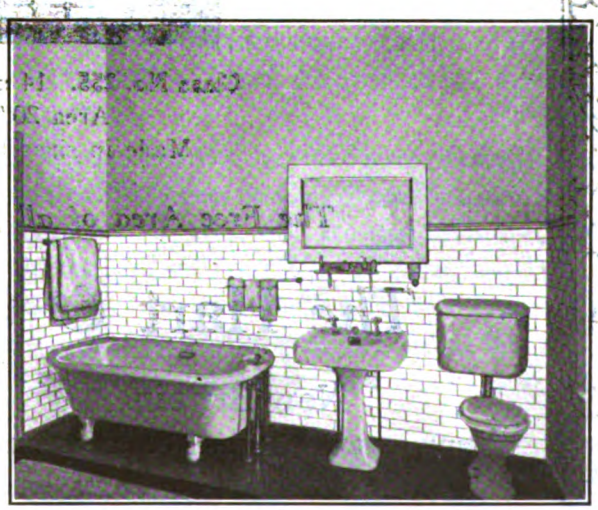
Furnished in press-scored sheets which can be enameled in a tile-like finish, this material is used for the wainscoting of bathrooms, kitchens and laundries. It is unaffected by steam, heat or cold.

Send for samples of this material and let us help you solve your building problems.



Photograph of House Showing Application of Clapboards

ASBESTOS CANNOT BURN



Photograph of Interior of Bathroom, using brick scored LINABESTOS

Asbestos Shingle, Slate & Sheathing Company

Dept. B Ambler, Penna.

Branch Offices:—Baltimore, Boston, Buffalo, Chicago, Cincinnati, Columbus, Detroit, Cleveland, Minneapolis, New York, Omaha, Philadelphia, Pittsburgh, Washington, Wilkes-Barre; Toronto, Canada; Havana, Cuba.

Southwestern Distributor:—R. V. Aycock Co., Kansas City, St. Louis, Tulsa, Houston.

California Representative:—J. A. Drummond, Los Angeles, San Francisco, Fresno.

H. G. Sperry & Company, Utah, Idaho, Nevada and Washington Representative: Offices—Salt Lake City and Seattle.
F. T. Crowe & Company, Washington Representative: Offices—Seattle and Tacoma.

Southern Representatives:—Dixie Asbestos Co., Birmingham, Ala.; Berry Asbestos Co., Atlanta, Ga.

Other distributors throughout the country.

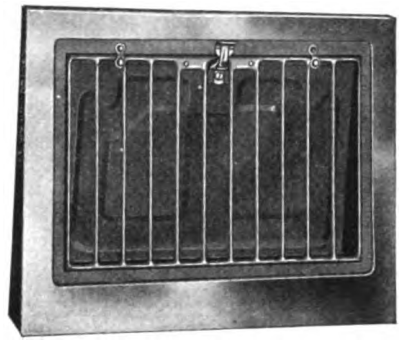
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FREEDOM OF THE AIR

H & C Registers and Cold Air Intakes with unprecedented free air capacity have wonderfully improved the circulation of air in

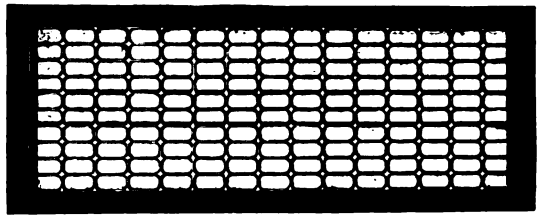
WARM AIR HEATING

H & C BASEBOARD REGISTER



Class No. 173¼. 8 x 12. Free Area, 81 sq. in.
Area 10″ Pipe, 78 sq. in.
Made in All Sizes.

H & C COLD AIR INTAKE



Class No. 255. 14 x 30. Free Area, 310 sq. in.
Area 20″ pipe, 314 sq. in.
Made in sizes to fit leading pipe sizes.

The Free Area of all faces printed in our catalog.

The Hart & Cooley Company

Incorporated

New Britain :-: Connecticut

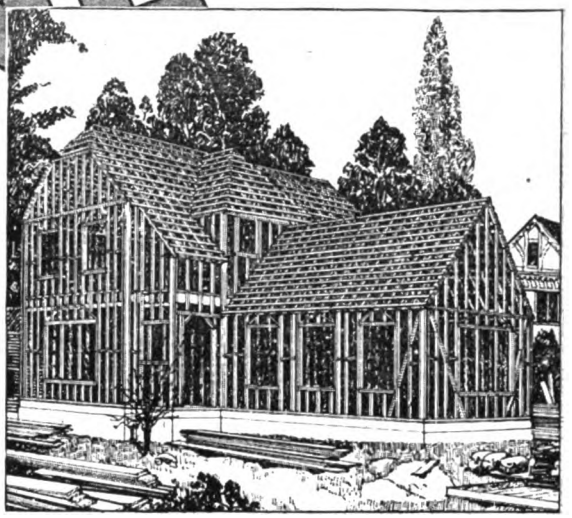
NEW YORK PHILADELPHIA CHICAGO BOSTON

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California PINE

California White Pine (trade name)

California Sugar Pine



Dependable framing of proven strength and durability

A BOOK on the requirements for house construction issued by the U.S. Bureau of Standards from data supplied by U.S. Forest Products Laboratory, Madison, Wisconsin, classes California White Pine, as structural material, with the white pine of the Lake States and New England, which was for generations the main construction material of a great portion of the United States. The strength and durability of white pine has been amply demonstrated.

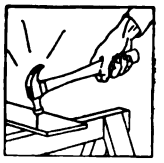
Aside from its strength and rigidity, California Pine has many virtues which recommend it strongly for framing—the same qualities that lead carpenters to prefer it to many other framing woods. It does not warp or twist. It is light in weight, which insures economical handling. Its soft texture and even grain make easy cutting and sawing. It holds nails tightly and does not split. It works up with little or no wasted material. It enables more accurate workmanship. In short, California Pine provides an ideal construction wood for homes and every other kind of moderate size structures.



Soft texture and even grain of California Pine make easy cutting and sawing—clean edges with no splintering



Carpenters like to work with California Pine because of its light weight. This quality also insures economical handling



"Corky" texture of California Pine enables nailing without splitting—right up to the very edge. Nails hold firmly

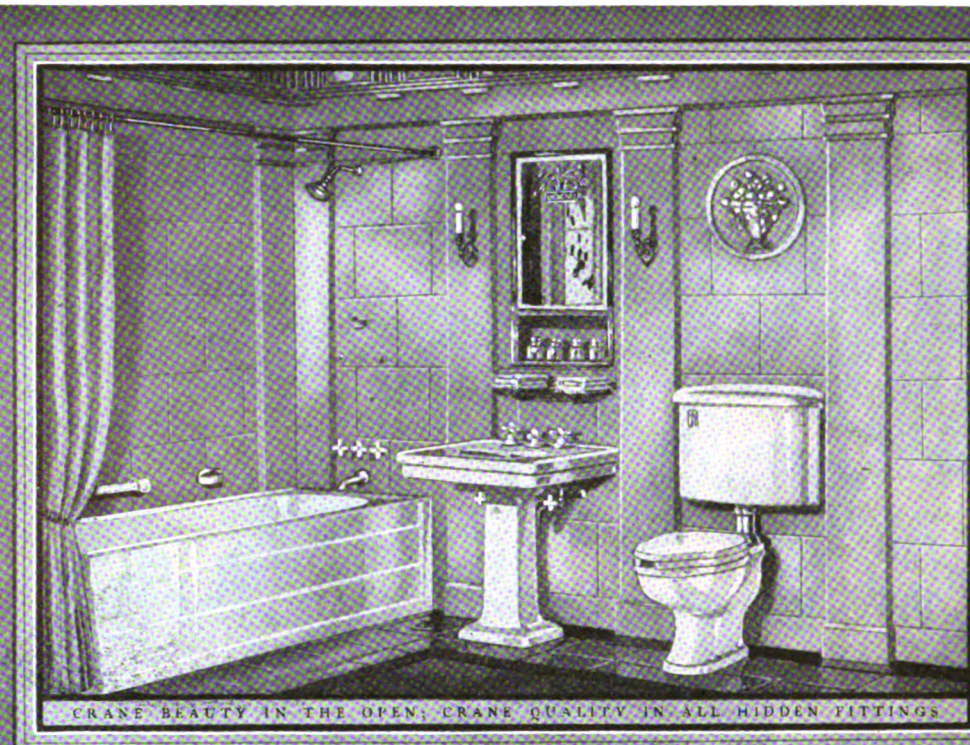
If you have not received a set of our Information Sheets on California Pine, let us send them to you. You are also invited to correspond with our Wood Technologist, formerly with the U.S. Government Forest Products Laboratory at Madison, Wis., and now connected with this Association.

California White and Sugar Pine Manufacturers Association

Call Building · San Francisco

Also producers of CALIFORNIA WHITE FIR · CALIFORNIA DOUGLAS FIR · CALIFORNIA INCENSE CEDAR

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To builders, Crane national advertising renders extremely valuable service. Not only does it accurately reflect the settings of today's most popular bathrooms, but it actually forecasts the future.

Every month the leading magazines show colored illustrations of the newest Crane bathrooms. Literally millions see, read, and are convinced. Thus every builder is enabled to plan with assurance, with the certain knowledge that the bathroom he puts into his houses will be of the type generally demanded.

Do these three simple things, and your bathrooms will quicken the sales and rental value of your houses: 1, read Crane national advertising; 2, write for our free color book on fixture arrangement; 3, consult a responsible plumbing contractor who sells Crane materials.

CRANE

Address all inquiries to Crane Co., Chicago

GENERAL OFFICES: CRANE BUILDING, 836 S. MICHIGAN AVENUE, CHICAGO

Branches and Sales Offices in One Hundred and Fifty Cities

National Exhibit Rooms: Chicago, New York, Atlantic City, San Francisco and Montreal

Works: Chicago, Bridgeport, Birmingham, Chattanooga, Trenton and Montreal

CRANE EXPORT CORPORATION: NEW YORK, SAN FRANCISCO, SHANGHAI

CRANE LIMITED: CRANE BUILDING, 386 BEAVER HALL SQUARE, MONTREAL

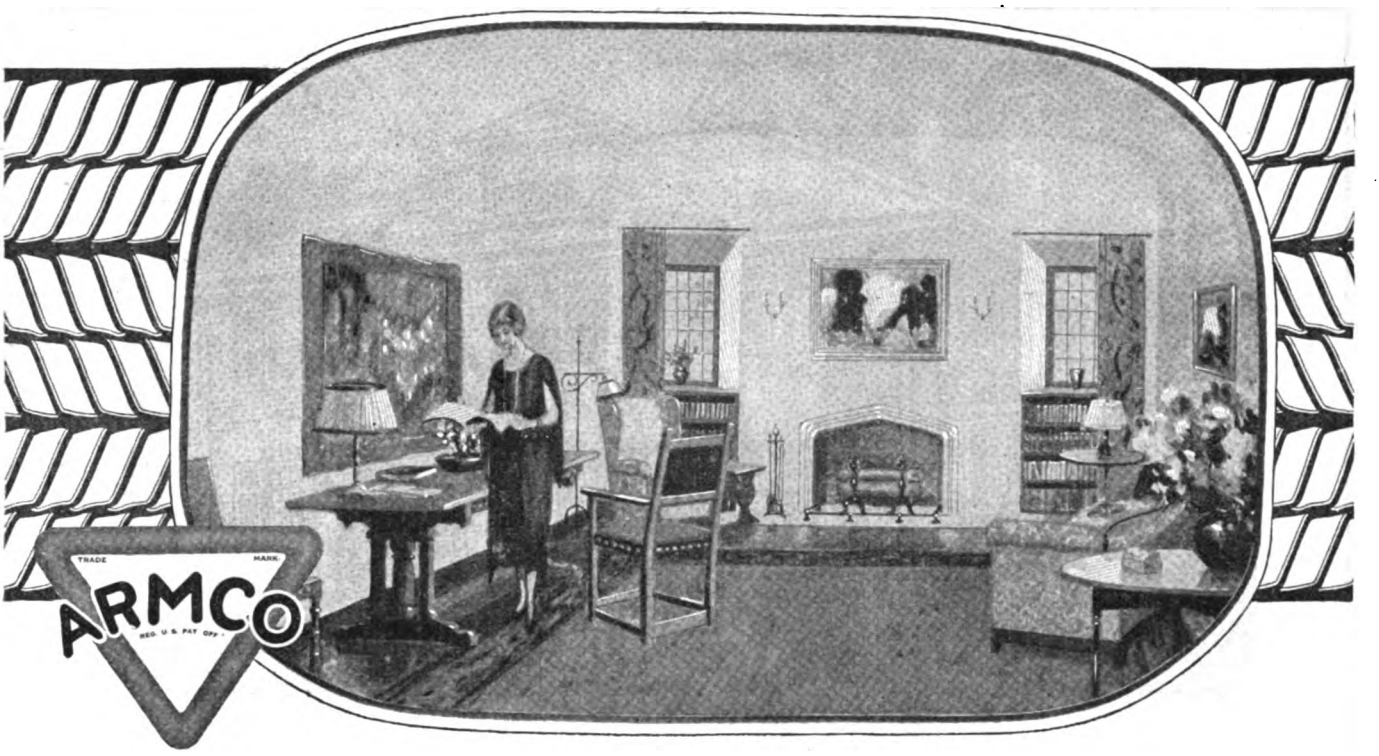
CRANE-BENNETT, LTD., LONDON

CIE CRANE: PARIS, NANTES, BRUSSELS



1855 . . CRANE VALVES . . 1925

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Every architect knows the lasting qualities of Armco—pure Ingot Iron. No material can equal it for lath. This company has the exclusive right to its use in metal lath.

Herringbone will assure the permanent beauty of walls you build

THINK for a moment of the *walls* in the homes you build. The owners—your customers—are going to lavish care on the decoration of those walls. They want walls that are good looking—as attractive as possible.

How disappointed those home owners will be if their walls soon become disfigured by cracks—marred by unsightly lath marks—and plaster checks.

And how easily and how economically you can prevent such difficulties while the house is under construction! The new Herringbone Doublemesh Lath definitely eliminates the possibility of these annoying faults.

Every builder recognizes the superiority of metal lath. And Herringbone is the only metal lath made of the famous, long-lasting Armco Ingot Iron. It has other marked advantages, too.

For instance: Herringbone has an exceptionally small mesh. The lath actually becomes embedded in the plaster—so thoroughly fixed that it simply cannot be jarred loose. It reinforces interior walls, preserves them—actually makes them crack-proof, mar-proof and fire-resisting, just as Herringbone Rigid Metal Lath does on stucco exteriors.

And *Herringbone Doublemesh Lath is exceedingly economical.* Its first cost is but little more than ordinary old fashioned wooden lath. And because it is so easily put up—because it saves so much in labor and in plaster, it is actually cheaper in the end. Not to mention the added satisfaction both to you and your customers.

A copy of our book "Herringbone Rigid Metal Lath," will give you many details of Herringbone construction. We will gladly send you a copy free upon request. Write for it.

Other GF Materials:

Self-Sentering—A combined form, lath and reinforcement for concrete floors and roofs.
Trussit—A reinforcement for solid partitions.
GF Expanded Metal—A concrete reinforcement.
GF Steel Tile—For concrete floors.
GF Steel Lumber—Used in place of wood joists and studs.
GF Steel Channels—For fireproof partitions and ceilings.
GF Peds—Spot grounds for attaching trim to concrete and plaster.
GF Duplex Steel Bridging—For wood joist floors.
GF Steel Sash.
GF Steel Basement and Casement windows.
GF Lintels.
GF Industrial Steel Doors.
GF Wire Mesh.
GF Waterproofings—For concrete and masonry.

Member National Council for Better Plastering

BETTER PLASTERING — METAL LATH TO REINFORCE AND PRESERVE

THE GENERAL FIREPROOFING BUILDING PRODUCTS
Youngstown, Ohio
Branches: New York · Chicago · Philadelphia · Boston · Cleveland · Los Angeles · St. Louis · Omaha · Kansas City · Minneapolis · Milwaukee · San Francisco · Syracuse · Atlanta · Mexico City
Export Department: 90 West St., New York City · *Cable Address:* "Firegen-New York"

GF Herringbone Doublemesh Lath

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Business is Good with the Fiske Brick Builder

HE builds with brick which has been thoroughly "sold" to his customers. Advertising, reputation and widespread use have made "Fiske Brick" well known for years and years.

Even before the house is built the owner is pleased, knowing that he's getting the biggest possible value for every dollar that goes into brick. After he moves in his satisfaction increases, knowing that every year means money in his pocket saved through lower maintenance, insurance, depreciation, etc. His "pride of possession" makes him a booster and the builder's reputation for good work grows thereby.

That's the kind of business that is worth while. Let the reputation of Fiske Brick help build your reputation. In the Fiske line is a face brick for every purpose. Your dealer can supply you.

FISKE & COMPANY, Inc.

New York Boston Watsontown, Pa.

FISKE BRICK

"Fiske" "Fisklock" Tapestry" "Caledonian"
and other high-grade Face Brick.

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It is just as important to have *permanent* conductor pipes, eaves-troughs, gutters, and roofs, as to have permanent foundations, side walls, and floors.

And you can—with Horse Head Zinc.

Zinc equipment will last a life time. It requires no attention and no replacement. It is artistic as well as practical and its first cost, figured over the years of service it gives, makes it by far the most economical metal you could use.

The New Jersey Zinc Company
Established 1848
Products Distributed by
The New Jersey Zinc Sales Company
160 Front Street, New York City
CHICAGO · PITTSBURGH · CLEVELAND · SAN FRANCISCO

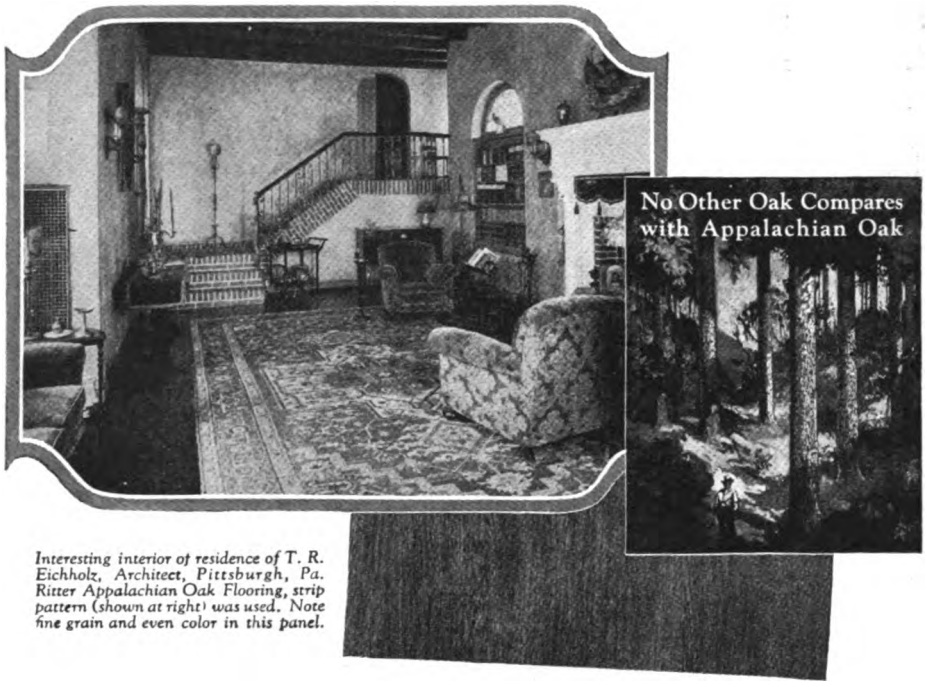


zinc

New Jersey zinc

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Appalachian Oak Floors Are Not Expensive



Interesting interior of residence of T. R. Eichholz, Architect, Pittsburgh, Pa. Ritter Appalachian Oak Flooring, strip pattern (shown at right) was used. Note fine grain and even color in this panel.

THE difference in the initial cost of Ritter Appalachian Oak Flooring over that of other brands of Oak flooring is more than offset by the greater beauty obtained, and in the actual dollars and cents saved in the cost of laying and finishing.

Favorable climate and soil conditions, under which Appalachian Highland Oak grows, not only account for the fine, subdued grain, uniform color, and resultant greater beauty, but also for a mild, even texture that p rmits of laying and finishing with greater ease, speed and accuracy than is possible with flooring manufactured of ordinary Oak.

For further information consult your lumber dealer or write the W. M. Ritter Lumber Co., 115 East Rich St., Columbus, Ohio.

NOTE—The same characteristics of fine grain and smooth, even texture, which make possible greater beauty in Ritter Appalachian Oak Flooring, also make it more economical to lay, nail and finish. This saving, all things considered, more than offsets the slight difference in initial cost.

W. M. RITTER LUMBER CO., Columbus, Ohio.

Gentlemen:

Kindly send me, without obligation, your booklet giving the reasons for the superiority of Ritter Appalachian Oak Flooring and other valuable information on how to properly lay flooring.

Name.....

City.....

Address.....BA-11

RITTER APPALACHIAN OAK FLOORING

Mail the coupon for complete information regarding Ritter Appalachian Oak Flooring

Technical Data on Laying Oak Floors

6.—PARQUETRY FLOORING

Parquetry Flooring as referred to herein will be understood to be tongued and grooved flooring, 13/16" thick, which is laid in squares, rectangles, and other designs, and which is blind nailed.

Ritter Parquetry Flooring is made in the following dimensions:

Thickness	Face Width	Length
13/16"	1½"	9"
13/16"	1½"	12"
13/16"	1½"	18"
13/16"	2"	8"
13/16"	2"	10"
13/16"	2"	12"
13/16"	2"	18"
13/16"	2¼"	9"
13/16"	2¼"	11¼"
13/16"	2¼"	18"

WHERE PARQUETRY IS USED

Parquetry flooring is suitable for the better type of homes, apartment houses, hotels, clubs, and public buildings.

Some of the more practical designs which can be laid with Parquetry are illustrated below. Parquetry stock for producing such variations as Basket weave, French herringbone, Square within a square, Squares on a diagonal, and others can be supplied. When the pattern in Parquetry Flooring runs diagonally to the walls of the room, such as in the herringbone designs (Figure 1), the sub-floor

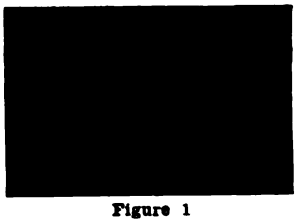


Figure 1

should be laid at right angles to the joists.

When the pattern in such a floor is to run parallel and at right angles to the walls, such as in Figure 2, the sub-floor should be laid diagonally to the joists.

FIGURING THE QUANTITY REQUIRED

Unlike tongued and grooved strip flooring, Parquetry Flooring is figured surface measure. To cover a certain space, determine the number of square feet (width of room in feet multiplied by length of room in feet) and add to this figure 4% to 6% for mechanics' waste in laying the floor. Percentage of waste, which varies according to the skill of the floor layer,

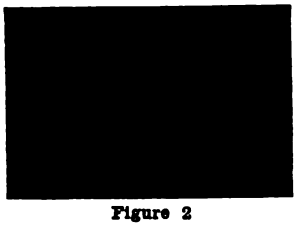


Figure 2

also is controlled by shape of room, cutting around projections, along irregular sides, etc. More rooms mean less waste. In figuring amount of Parquetry Flooring needed, deduct the area required for the border, which is about 2% under ordinary conditions.

How to properly lay Parquetry Flooring will be discussed in the December issue of this Journal.

See **Sweets** and **American Architect Specification Manual** for complete data.

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Nature at Her Best

Delving deep into the earth we find nature's handiwork in various degrees of perfection. Somewhere we find the finest coal, the most remarkable vein of gold or nature's greatest deposit of oil.

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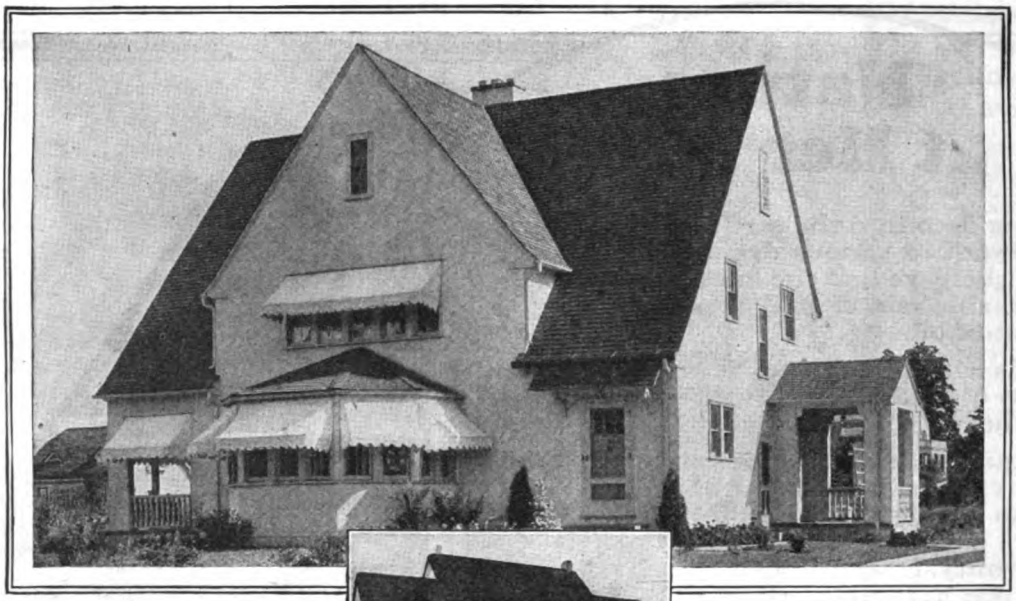
White Enamel Gold Medal White Lily Finishing Hydrated Lime

IT'S QUALITY FROM STONE TO FINISH



"The Quality~ ~is in the Limestone"

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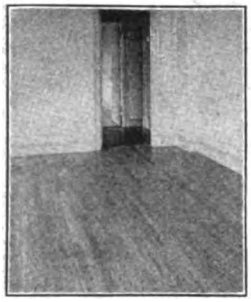
Residence of E. R. Gillet, Ottawa Hills, Toledo, Ohio, in which 3/8 x 1½ clear white Bruce Oak Flooring was used in principal rooms, and select grade red oak upstairs.

Geo. M. Stader, Toledo, Ohio, Contractor.

The value of these homes in Toledo, Ohio, whether for sale or rental, is increased by Bruce Oak Flooring. 3/8 x 1½, in clear and select grades, was used throughout.

Trowbridge & Ackerman, New York, Architects.

Select the Best OAK Flooring



Regardless of whether you are erecting a modest cottage or a more pretentious home, there is Bruce Oak Flooring that will come within the cost estimated. The quality will be the highest, regardless of price, as there is only one standard of Bruce Oak Flooring.

By selecting different grades for different rooms—using quartered and plain sawn, and perhaps design flooring or border treatment in one or more principal rooms, the entire home may be floored in an attractive and distinctive way, at moderate cost.



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Home of Wm. E. Wright. Geo. M. Stader, Contractor.



Residence of Harold Kells. P. M. Bettinger, Contractor.



Residence of Henry Lamont. P. M. Bettinger, Contractor.

The wise builder specifies *Bruce* Oak Flooring, because it is made from the most carefully seasoned lumber, in mills built expressly for the manufacture of oak flooring, equipped with the most modern machinery.

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THE MARK OF QUALITY

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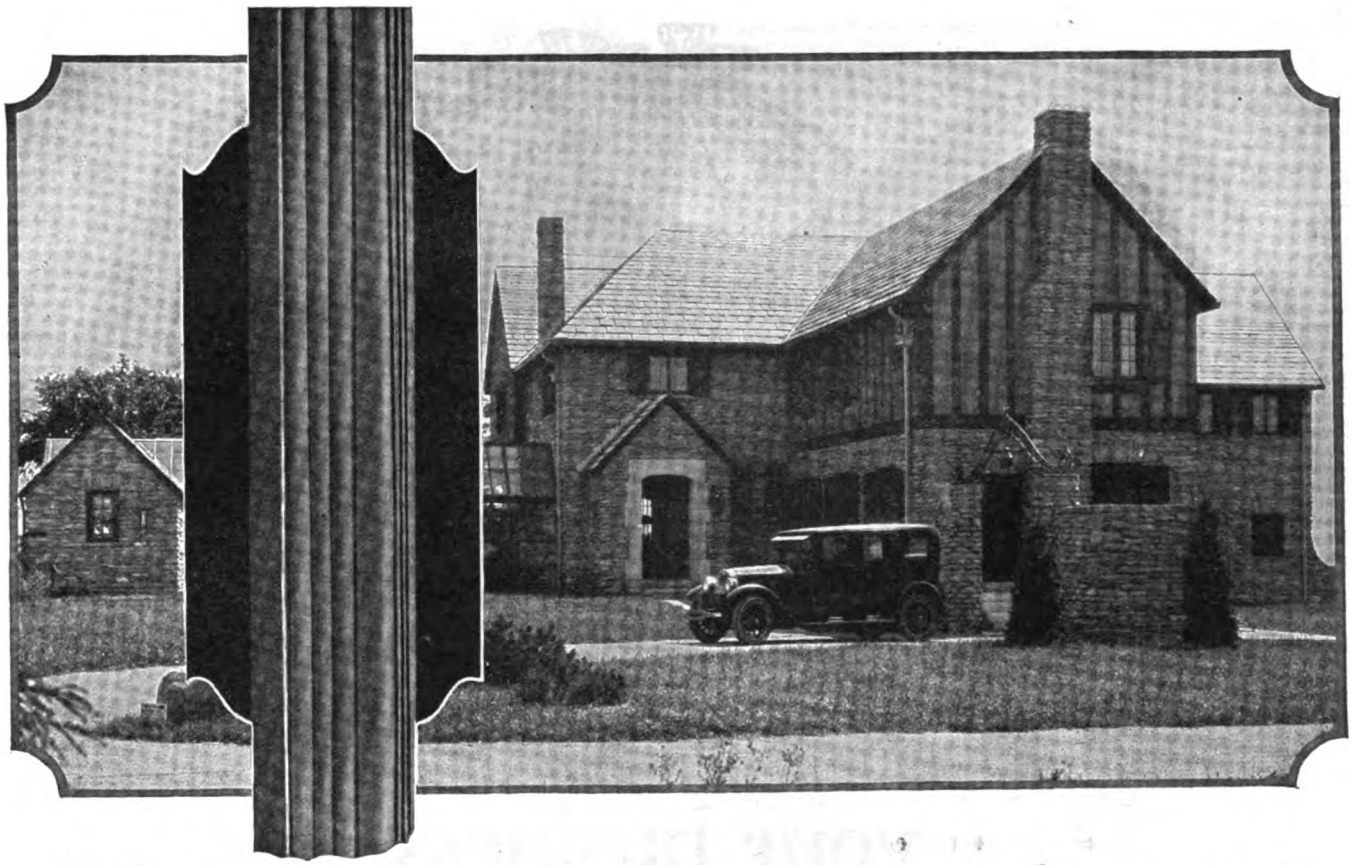
THIS book tells you about the convenience, economy and attractiveness of Bruce oak flooring. The ease with which it may be kept clean and bright; the enduring qualities; the increased value added to any home; appropriate use of various grades and widths, with practical suggestions for different rooms; distinctive effects which may be obtained from color finishes. 24 pages of interesting facts, fully illustrated. Write today for your free copy.

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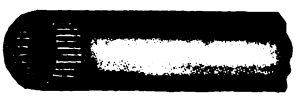
MEMPHIS TENNESSEE

LARGEST MAKERS OF OAK FLOORING IN THE WORLD

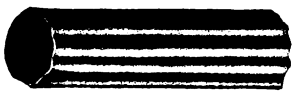
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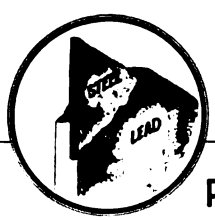
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19 MILLS FROM COAST TO COAST

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Kernerator-equipped 18-apartment building at 229 Lake Shore Drive, Chicago. Architects, Eckland, Fugard and Knapp; owners, "229 Lake Shore Drive, Inc."

Thoughtfulness That Pays

COMPETITION for tenants is daily becoming a more important factor in planning apartments. For many architects and owners, the Kernerator is a great aid in meeting this situation. Architects Fugard and Knapp are convinced of this—as a matter of fact have been specifying the Kernerator for years. The above admirably-planned apartment at 229 Lake Shore Drive is one of their latest Kernerator-equipped projects.

The Kernerator not only makes instant disposal of *all* waste, refuse and garbage the easiest task in the kitchen, but it saves money by—

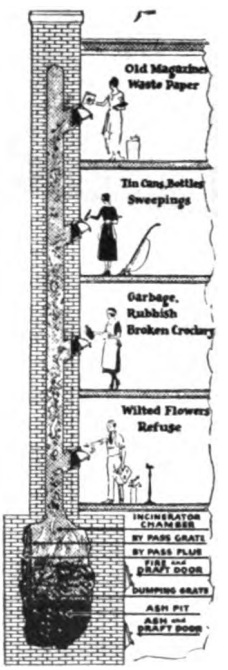
> eliminating cost of garbage cans and their replacement—reducing janitor service requirements—minimizing possibility of tenant-janitor disputes sure to grow out of garbage collection—enhancing the cleanliness and attractiveness of the premises—reducing greatly the fire hazard.

Costs Nothing to Operate—No Fuel Required

As shown, the Kernerator consists of a brick combustion chamber at the base of the chimney, with hopper doors located in or near the kitchen on floors above. *All* waste—garbage, sweepings, tin cans, glass, crockery, papers, magazines, and the like—dropped through the handy hopper doors, fall to the combustion chamber. An occasional lighting of the air-dried waste burns everything but metallic objects and the like, which are flame-sterilized for easy removal with the ashes.

Full details appear on pages 2536-37 Sweet's (1924). For additional data, write

KERNER INCINERATOR COMPANY, 727 E. Water St., Milwaukee, Wis.



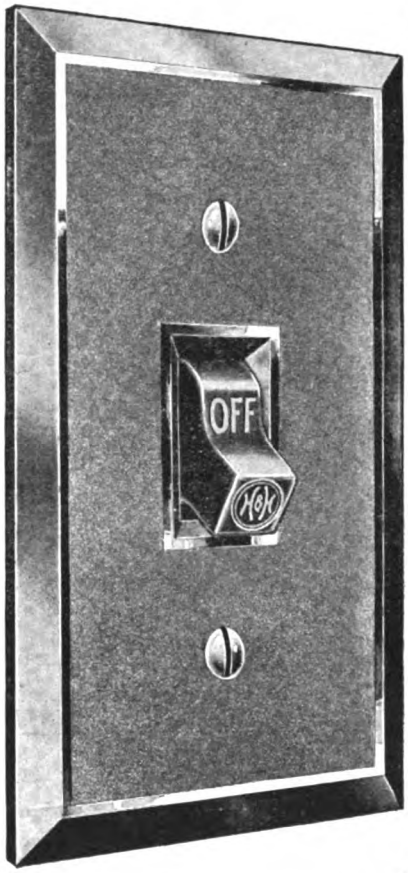
The soundness of the Kernerator principle and application, proved by thousands of installations throughout the country, is well illustrated above. Note: the Kernerator must be *built-in*—it can rarely be installed later without prohibitive expense.

KERNERATOR
multi-flame chimney
Reg. U. S. Patent Office

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on H&H Switches and Convenience Outlets





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Add finish to fine Interiors

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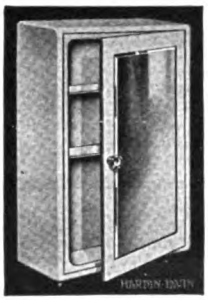
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One size only, for all size people

Regular Bath, Seat Bath, Shower Bath, Foot Bath, and Child's Bath, all in one piece

Made of Semi-Vitreous Porcelain Ware

and

Enameled Iron Ware

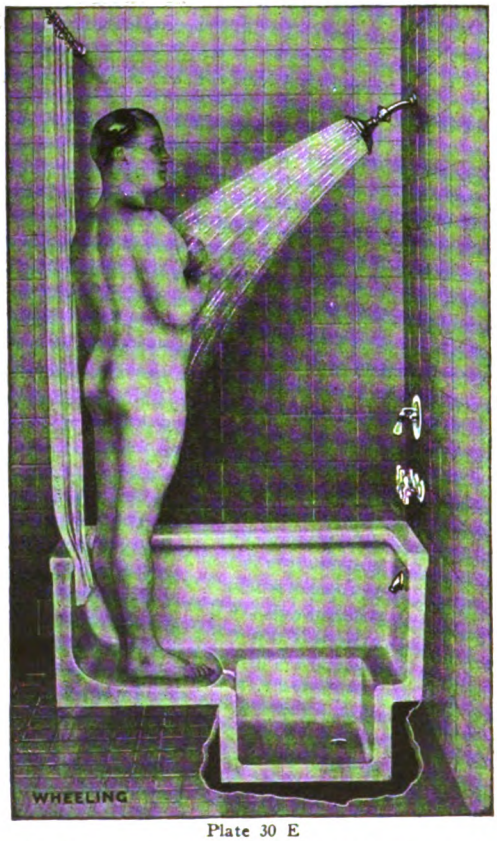


Plate 30 E

Semi-Vitreous Porcelain Ware, 44x30 inches to tile in right or left hand corner, or in recess. Glazed white all sides. Only one size made.

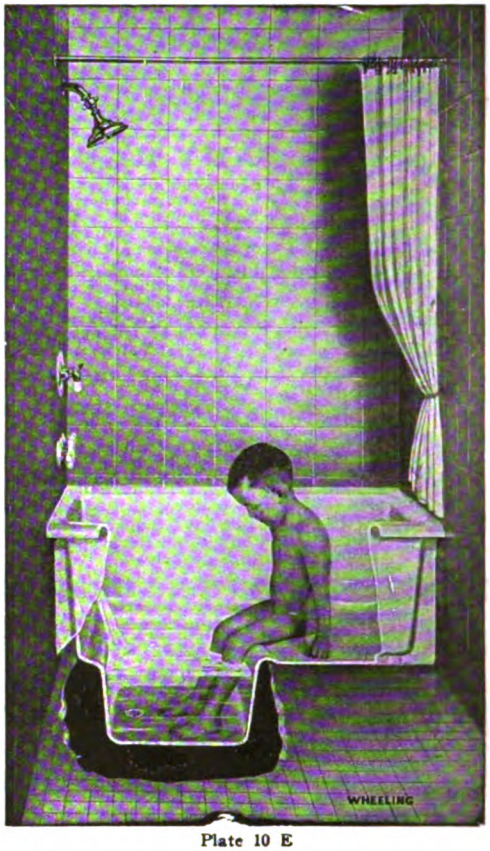


Plate 10 E

Enameled Iron Ware, 44x30 inches to tile in recess only. Enameled white front. Waste in foot section either right or left hand end. Only one size made.

Testimonials

Mr. T. H. Kelley, 158 E. 188th St., New York City, says:

"I had installed in my house several months ago, one of your Combination Bath Tubs fitted complete with shower and curtain, and I cannot say too much in recommending this fixture and am glad I decided on this new type of tub, as it gives the bathroom features that other pattern tubs do not have.

"I am a man weighing two hundred pounds and the tubs have ample room for one of my size to properly bathe.

"You are at liberty to use this letter in any way to advance the use of this fixture, as I cheerfully recommend this tub to anyone, and if I were to equip another bathroom for my own use, or for sale, I would use this Combination Tub."

Dr. Herman N. Bundesen, 7414 Oglesby Ave., Chicago, Ill., installed one of these tubs in his new residence a year ago, and remarks as follows:

"It is the best fixture I ever saw, and I would not be without it for anything. It is most economical in the use of hot water, and this is a decided advantage where instantaneous gas water heaters are used. Furthermore, it is an ideal tub where there are children, as it can be used to great advantage as a foot bath when the children come in dirty from playing. The shower feature is also an advantage which I greatly enjoy. In fact, this tub is most aceeptable in every way, and I must thoroughly recommend this fixture."

Mrs. Bundesen is equally as enthusiastic as the Doctor, and states:—

"It is a wonderful bath."

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Vitreous China Closet Bowls and Flush Tanks of all kinds.

Semi-Vitreous Porcelain Baths, Sinks, Lavatories, Drinking Fountains, Urinal Stalls, etc.
Enameled Iron Baths on feet and on base.

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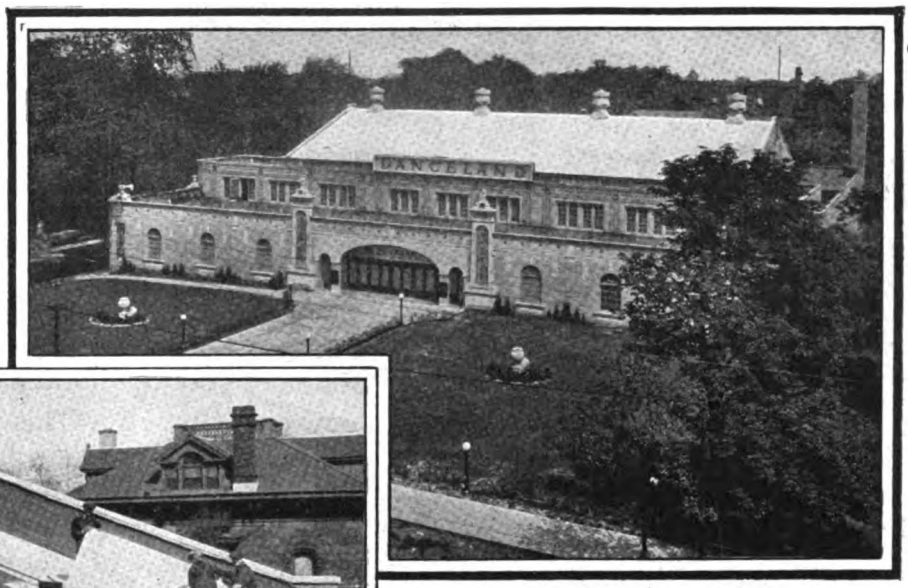
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HOLORIB

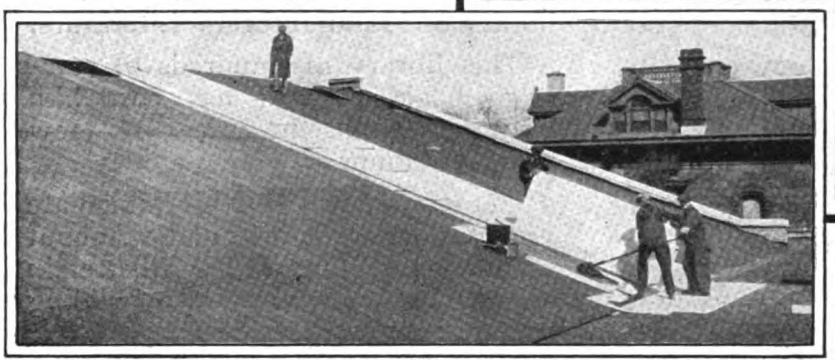
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TRADE MARK

INSULATED ROOFS



HOLORIB INSULATED ROOF on Danceland, Cleveland's beautiful ball room. The architect estimates that contract was completed thirty days under schedule due to Holorib roof construction. Insulation applied under the Holorib principle is protecting this building.



APPLICATION OF HOLORIB ROOF deck, insulation and waterproofing going forward as one continuous operation. Holorib Insulated Roofs can be applied under any weather conditions, freezing temperatures are not a barrier.

When Does a Roof Leak?

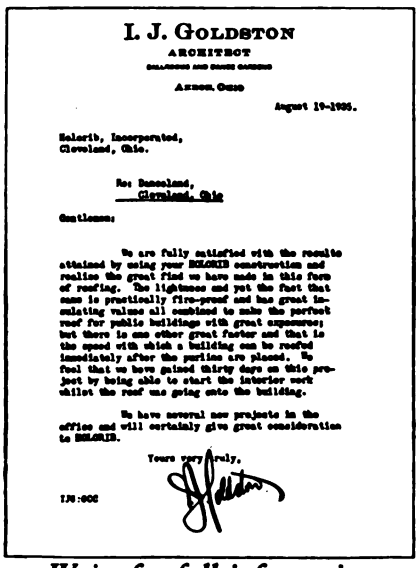
There is a source of roof leakage far more common than water and equally disastrous. Thousands of dollars' worth of heat are wasted by many so-called good roofs because, while waterproof, they are not properly insulated.

Holorib insulated roofs are built to supply maximum insulation. They keep rooms cool in summer and warm in winter. They stop fuel waste and completely prevent condensation and decay.

A complete Holorib unit consists of a steel supporting sheet self-reinforced by closed triangular ribs, each rib a complete girder beam. This supporting member is insulated and waterproofed under Holorib Specifications.

Having the lightest permanent deck in existence, a Holorib Roof pays for itself by allowing minimum weights of structural members from foundation up.

An ideal roof for a new building or for replacement. Fire resistive and quickly laid under any weather conditions.



I. J. GOLDSTON
ARCHITECT
ARCADE AND EUCLID CHAMBERS
AKRON, OHIO

August 19-1925.

Holorib, Incorporated,
Cleveland, Ohio.

Re: Danceland,
Cleveland, Ohio

Gentlemen:

We are fully satisfied with the results obtained by using your HOLORIB construction and realize the great find we have made in this form of roofing. The lightness and yet the fact that same is practically fire-proof and has great insulating value all combined to make the perfect roof for public buildings with great expansion; but there is one other great factor and that is the speed with which a building can be roofed immediately after the purlins are placed. We feel that we have gained thirty days on this project by being able to start the interior work whilst the roof was going onto the building.

We have several new projects in the office and will certainly give great consideration to HOLORIB.

Yours very truly,

IJG:GGE

Write for full information

HOLORIB, Inc.
2735 Prospect Avenue
CLEVELAND, OHIO

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"I have it!"



Fill In, Clip and Mail Now

BUILDING AGE AND NATIONAL BUILDER
239 WEST 39th STREET NEW YORK, N. Y.

Gentlemen: Please send me without charge, unless otherwise noted, the Manufacturers' Literature, numbers of which I have enumerated below:

No..... No.....
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Name .....
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Build a Worth While Library —No Charge!

Take example from the gentlemen directly to your left.

He is a wise builder who has learned a little secret of how to keep posted to the minute about every development in building materials, machinery and equipment.

He has, through the Service Department of Building Age and National Builder, accumulated a library of Manufacturers' Literature.

This library of hundreds of catalogs, booklets, etc., has cost him nothing beyond the price of a few postage stamps.

Yet it has put within his immediate reach volumes of information about what is new, improved and better in everything that enters into building construction.

He keeps thoroughly up-to-date. He is never at a loss to hand to a prospective buyer complete data completely illustrated. When some detail of a job is being figured he has the specific information necessary at his finger tips. He is always able to say, "I have it!"

You can have no more valuable accessory in your place of business than complete files of Manufacturers' Literature. We shall be glad to provide these for you without charge or obligation.

Turn to pages 148, 150, 152, 154, 156, 158, 160, 162, 164, 166 and 168 of this issue; use the coupon and fill in the numbers of pieces you want. They will be forwarded at once.

Building Age
and
National Builder
239 W. 39th Street New York, N. Y.

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Nelson
MASTER·SLAB·ROOFS

MOTHER Nature herself created the mellow colors found in a Nelson Master Slab Roof. That is why they blend so harmoniously and lend so much beauty to their setting.

Then science took a hand, adding to harmony the safety of fire-resisting elements, the durability and economy of expertly processed, high grade materials.

May we send you a more detailed description of this beautiful roof?

The B. F. Nelson Manufacturing Co.
Minneapolis, Minn.



Notice the beautiful lines of a Nelson Master Slab Roof. The colors become softer and more harmonious with the changing seasons. Write for free samples of the six basic colors, moss green, autumn brown, Spanish red, velvet black, purple or maroon.

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The Log Train

ACROSS the trestle over the deep ravine the long log train thunders on its way. Each car is loaded with giant logs of a quality found only in Shevlin Pine. ¶ Shevlin timber is not selected for cutting until it reaches mature growth. The younger trees are left standing until they can meet the Shevlin standards. ¶ That is why you are certain to obtain wood of lasting quality when you specify Shevlin Pine.

Shevlin, Carpenter & Clarke Company

900 First National-Soo Line Bldg., Minneapolis, Minn.

SHEVLIN

LOG MARK REGISTERED

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Nelson
MASTER·THATCH·ROOF

The protection afforded by a Nelson Master Thatch Roof is complete because of the durable quality of the materials used, their perfect fabrication and the average coverage of four thicknesses over every inch of the roof surface.

A building covered with Master Thatch is really protected by an average of four complete roofs laid one over the other and interlocked.

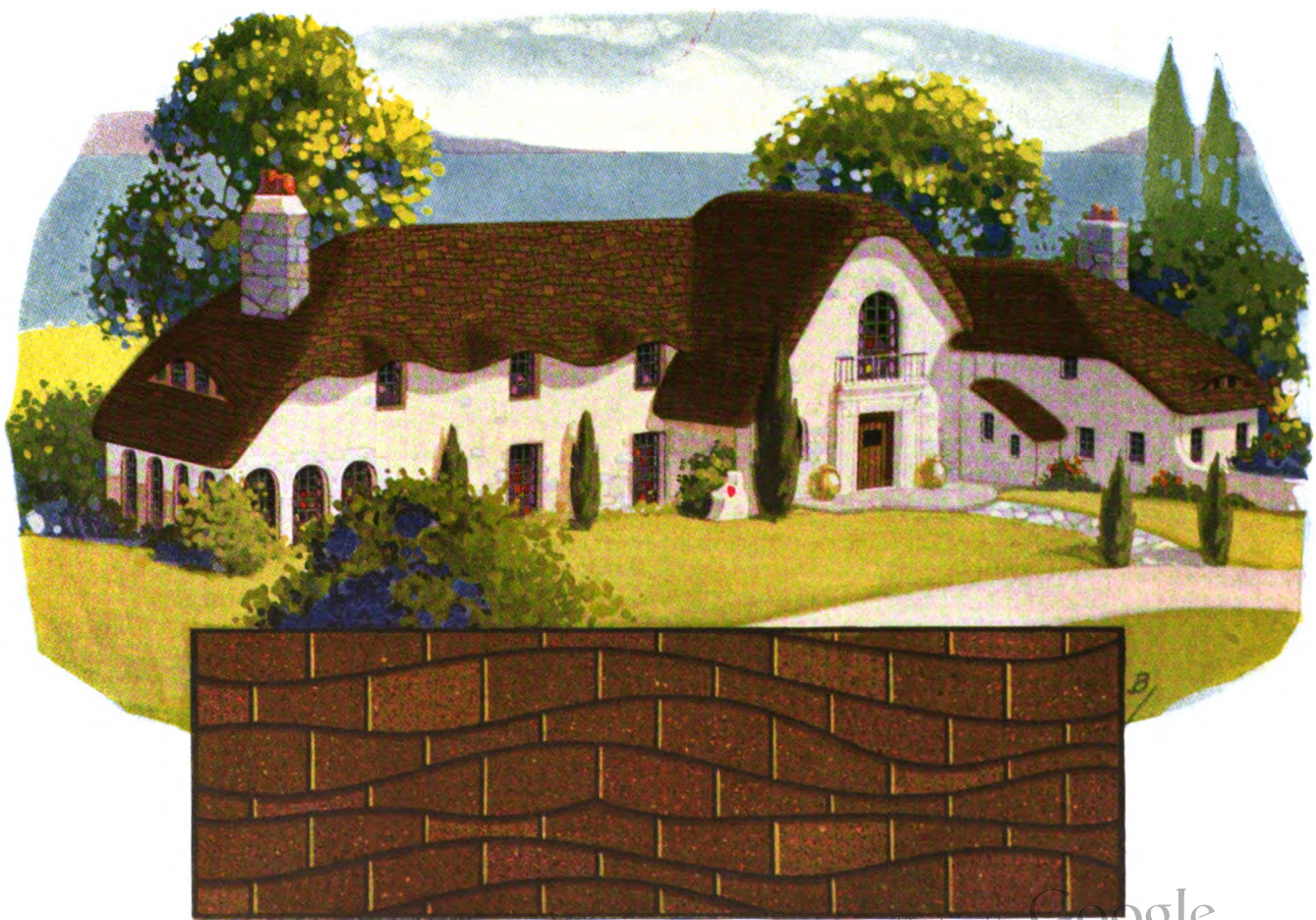
The six beautiful natural crushed rock color tones used in surfacing Master Thatch enable the builder to select the exact single color or color combination which gives the most pleasing effect in finishing the building. These natural rock colors are unfading and time only tends to soften the tones.

In considering enduring color qualities, fire resistance, complete four ply coverage, durability and artistic effect the Nelson Master Thatch Roof should not be confused with wooden or so-called "strip thatch" roofs.

Master Thatch is composed of long, individual, reversible shingles with artistically matched and curved edges, making it easy to lay.

The B. F. Nelson Manufacturing Company
Minneapolis, Minn.

The building shown below is reproduced from an original design by Liebenberg & Kaplan, Architects and Engineers, 617 McKnight Bldg., Minneapolis, Minn.



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Modern machinery, methods and specialization lower costs at factory; quickness of assembly saves the builder time, labor and money on the job.

Write for latest information on Andersen Standard Frames stating whether you are an architect, builder, dealer or prospective home owner.



Andersen Frames ready for use

"Ready for use" means that an Andersen Window Frame reaches the job promptly in two compact bundles plainly marked for size. The two bundles contain seven units which fit together exactly; the carpenter needn't spend a minute refitting the parts.

Most builders report that an Andersen Frame can be nailed up ready for the opening in less than 10 minutes.

Andersen Lumber Company
Bayport, Minnesota

Andersen
FRAMES

WHITE PINE Andersen FRAMES

Look for this trademark—it appears on every Andersen Frame.

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Residence of Edward F. Cagwin, 3275 Braemar Road, Shaker Heights, Cleveland, Ohio. Architects, Brooke & Burrows, Cleveland, Ohio. Kitchen equipped with New Process Lorain-equipped Gas Range. Smaller view below shows the stove installation.

Please Those for Whom You Plan Buildings!

NATURALLY, no architect ever plans a structure without striving to please, thoroughly, those by whom he is employed.

He knows that the keenest appreciation will be his if he advises the installation of the latest, most practical and most efficient equipment.

The architect knows that builders and owners realize that if their structures have the best of labor-saving equipment, homes are rented much more quickly.

This is why so many architects are advising the installation of gas ranges with Lorain Self-regulating Ovens. They know that stoves equipped with the famous Red Wheel, which are advertised extensively and continuously in all leading national magazines to millions of readers, make instant appeal to housewives.

Lorain-equipped Gas Ranges make it possible for the housewife to be away for the entire afternoon while the evening meal (meat, vegetables and dessert) is being cooked, unwatched, with perfect results. When she returns home at 6 p. m., say, the whole meal is ready to be placed on the table.

The Lorain Oven Heat Regulator is the original oven heat regulator. It is manufactured and *guaranteed* by the same company that makes the stoves of which it is a part.

These famous makes of gas ranges are equipped with the Lorain: Quick Meal, Reliable, Clark Jewel, Dangler, Direct Action and New Process.

Lorain-equipped Gas Ranges are made in every approved size, style and finish suitable for houses, schools, churches, apartment buildings—in fact, any structure where cooking is to be done. For specific data, see 19th Edition, Sweet's Catalog, Pages 2497-2506 inclusive. Other data on request.



One easy turn of the Lorain Red Wheel gives the housewife a choice of any measured and controlled oven heat for any kind of oven cooking or baking.

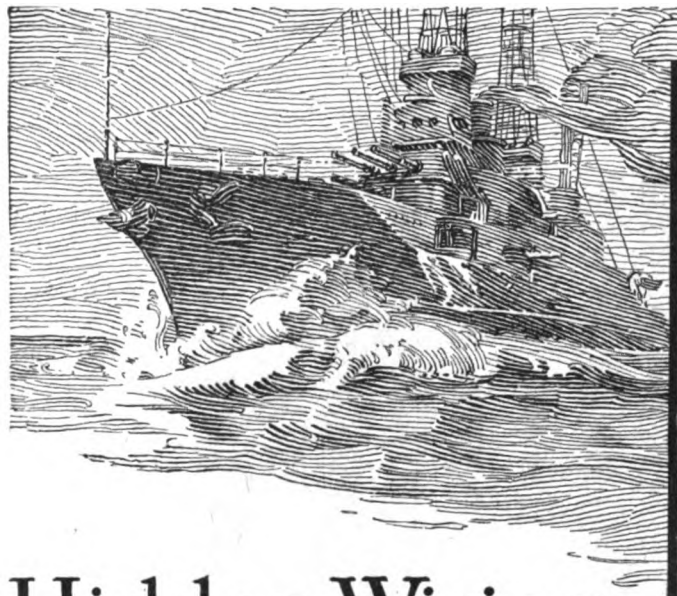
Unless the Regulator has a RED WHEEL it is NOT a LORAIN

AMERICAN STOVE CO., 222 Chouteau Ave., St. Louis, Mo.

Largest Makers of Gas Ranges in the World

LORAIN OVEN HEAT REGULATOR

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Hidden Wiring *should be* Quality Wiring

HANG up a "G-E Wiring System" sign on the front of the house, and you have added to its selling value. Today, every man knows that the wiring materials built into the walls of a house are important. He knows that if they are made by General Electric, they are of highest quality, down to the very last detail. And he knows, too, that a complete G-E Wiring System gives him the utmost of service and convenience out of electricity.

General Electric is a good name to tie to. Its prestige is always an indication that you have been particular in the quality of materials you use in construction. And the nationwide advertising of the G-E Wiring System makes people quick to recognize its value.



Have you received our helpful booklet on complete wiring, "The Home of a Hundred Comforts"? Send for a copy.

Section BA-11
Merchandise Division
General Electric Company
Bridgeport, Connecticut

WIRING SYSTEM
—for lifetime service

GENERAL ELECTRIC

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BRIXMENT HAS NO EQUAL FOR MASONRY





BRIXMENT is a patented mason's cement for brick, stone and tile, combining unusual advantages not obtainable in any other mortar material. Four bags or one barrel (4 3/4 cubic feet) when mixed with three parts sand make 5/8 cubic yard of smooth, plastic mortar—sufficient to lay 1000 brick. Setting time about the same as portland cement. Does not fade mortar colors and requires less color to obtain the desired shade. Grows harder with age.

Masons *Prefer* BRIXMENT Mortar

—because it spreads more easily, more quickly and makes better joints. Contractors prefer it because it is more economical (reported savings from $1.00 to $1.50 per thousand brick), because it saves time and material (can be mixed and used at once as the work progresses) and because it makes hard, durable joints. One trial is sure to convince you. If there is no BRIXMENT dealer in your town, write us for further details and quotations.

Louisville Cement Co., Incorporated, Speed Building, Louisville, Ky.

for Better Masonry

BRIXMENT

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OAK
the sovereign wood.

The RENAISSANCE of OAK.

The above picture shows the South portal of the Georgian Room, New Hotel Peabody, Memphis, Walter W. Alschlager, Architect, B. W. Construction Co., Chicago, General Contractors.

TO view the Georgian Room of the New Hotel Peabody—one of America's finest—is to receive a new vision of the artistic potentialities of Oak. Combining sturdiness and practical utility with majestic, ingrained beauty, Oak offers to the designer and craftsman an imperishable medium of expression. As it is Oak that has preserved for this generation the genius of the medieval master of wood, so may the artisans of the twentieth century confidently rely upon the lasting qualities of this sovereign wood to bequeath their achievements to posterity. Let the Oak Service Bureau, Bank of Commerce Bldg., Memphis, Tenn., send you the booklet "The Charm of Modern Oak."

OAK for charm, comfort & character.

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Building Age and National Builder
With Which is Incorporated
The Permanent Builder and The Builders' Journal
New York, November, 1925



The HOUSE of the MONTH

A BEAUMONT, Texas, building company thought enough of standardized products to use them as a basis for a "Better Home." They built for permanence and followed the policy of including many little details to make the dwelling livable. The Beaumont Building Material Company promoted the enterprise, aided by the local newspaper, Livesay and Wiedemann—the architects—and many national manufacturers

ON ONE of the corners where Broadway crosses Ninth in the picturesque town of Beaumont, Texas, there has been erected a building that carries the model home idea to its logical conclusion. It is a residence of beauty and proves beyond peradventure of a doubt that clever design may be incorporated in a home of convenience and utility.

It may be said that the citizens of Beaumont were responsible for the construction of this "Better Home." Their interest made possible its creation.

The Beaumont Building Materials Company promoted the enterprise, sponsored it by the Beaumont Enterprise and Journal, a local newspaper. It is, however, a civic enterprise, and on the list of those who have made it a reality, stand many names of national prominence.

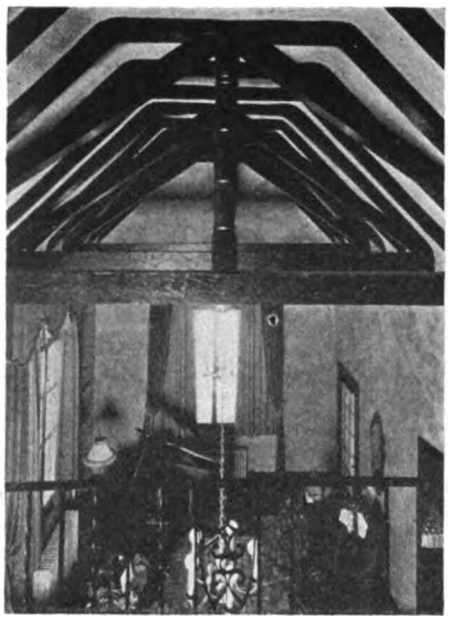
No description of this materialization of an architect's conception can do full justice to its intrinsic beauty. From the outside the building is notably one combining everything of personality and identity. Foremost, of course, the eye is taken by the stained window detail of the facade. It is extremely simple yet one executed in harmonious proportions to the building as a whole. A tiny balcony adds a further touch and ranks this facing detail among the best that has been done in home design. How many small libraries or other public buildings are there that can boast so splendid an achievement?

The wall, traversing right front, is an integral part of the brick construction, broken only by a driveway. This opening is spanned by iron gates. The same wall is continued at a less extreme height around the sides to the rear of the lot.

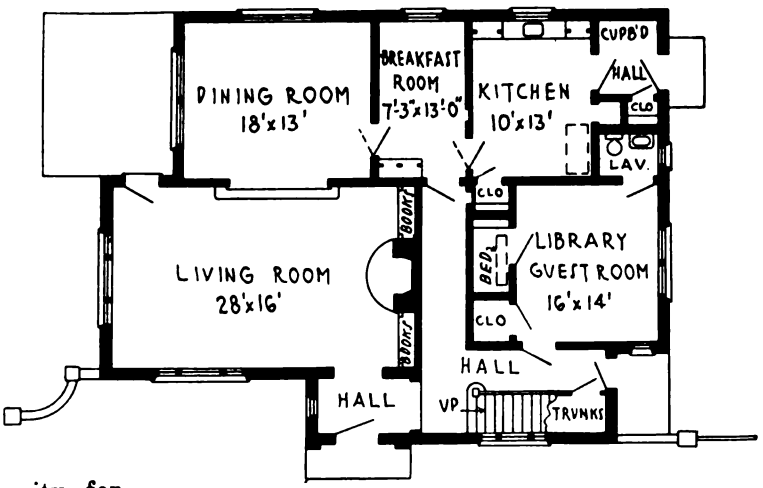
It may be truly said that treatment here is Italian. The interest lies in that we picture an Italian setting as one of gently sloping hillsides backed by vineyards. In the Southwest there are few such rolling hills and yet this home is not in the least out of its proper niche. It proves that period matters little, if the treatment is basically fine and the interpretation adapted with necessary variations.

The construction is of such nature that even the hypercritical will find it difficult of comment. It is primarily of a permanent character and fire-resistant, as well. For example,

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A VIEW of the living room seen from its picturesque balcony. Open beamwork adds a decided flavor of Old World architecture. To the right is the first floor plan of the Home Ideal. The position of living room in relation to rest of house has been deftly allocated as is shown



the foundations are of solid reinforced beam construction on concrete piling every six feet. This leaves little opportunity for walls to crack or settle.

Then, solid concrete sub-floors are covered with two inches of waterproof base on which are laid the hardwood floors.

To present to visitors products that would be immediately recognized as standard, the promoters have selected those that are of national importance. Local distributors were glad to lend their cooperation for the added business it netted them. The Beaumont Building Material Company realized this and in the choice of those products in which they were not directly interested, they selected ones that had gained countrywide prominence. Thus, the standardized products advertised theirs in return.

Construction walls are many-celled, interlocking tile faced with face brick and fitting harmoniously with the Italian type of architecture. This school calls for light variegated colors of either stone or stucco, but the builders in this case decided to work out the same scheme in brick. The result is very desirable and reflects creditably on the builders' ingenuity.

The roof is fire-resistant, laid with pitted color blend asbestos shingle. Here, too, the designers have carried out the variegated color idea.

In the larger sense, these details of construction serve to show how firmly the builders have adhered to their policy of using only recognized materials to effect permanent, waterproof and fire-resistant construction.

Once inside this Italian gem, the interior treatment bears out all promises of a delightful home. One first comes upon a hallway with a door that is a unique speciment in its authenticity. Sturdy wood has been enlisted for this craftsmanship and large well proportioned hinges and lock gives to it a massive, secure appearance so desirable in this type of design. The floor here is tiled as is the living room in variegated tile of extraordinarily fine quality. Thence the visitor passes to a hall, illustrated—a hall that is simple and colorful in its simplicity.

A living room commanding both stories is boastful of its trim balcony accessible from the second floor, Below it a finely executed fireplace the feature of its extremely "livable" corner is next in order of attention.

The library, also accessible from the hall, has been designed to serve a two-fold purpose. Embodied in it is a bed closet and on hospitable occasions the room is, in a second, transformed into a guest chamber. With this use in view a little room is provided just off of it with a water closet and lavatory. This chamber-library has a hardwood floor. A spacious closet is located just to the left of entrance.

BELOW is the greatest achievement in this Beaumont House—a well executed fireplace and, over it, the balcony from which the photo above was taken. Note wall treatment—it is rough textured, plastic finish throughout



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Let us not overlook the wall treatment of all these rooms. Decorative plastic finish is used throughout and to good advantage. The Italian is given to this medium of decoration and the builders, awake to the necessity of accurate interpretation, have used it here.

One illustration shows a view into the dining room. Here we come upon an interior that introduces just the necessary touch of variety, yet the materials are much the same. A hardwood floor has been judged most suitable with wall decorations in the same plastic medium. Note the low step that lifts one from the living room level to that of the dining room. A simple device has been employed for netting something just enough out of the ordinary to be desirable.

In addition to this room, a little breakfast space has been worked in next the kitchen. One window and a china-closet provide the wherewithal for comfort and cheeriness.

Regarding the kitchen it will suffice to say that it is "usable" in terms of working space and modern equipment.

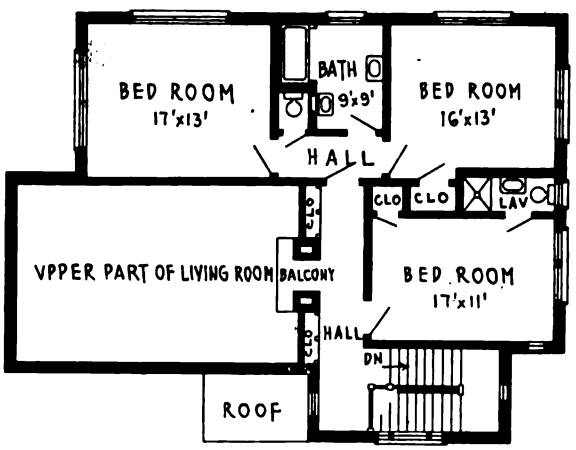
At the top of those trim stairs that set off the front hall, the enthusiastic vistor finds a long hall at the end of which is a bath, the larger of two. Snow-white fixtures of the most recent design and the dark hued tile floor contrast pleasantly. The picture shows a neat dressing table as a further convincing feature.

To the right and to the left of this bathroom are bedrooms, each ample in size and furnished in good taste. One of these is shown, completely appointed as the Beaumont visitors see it. A third bedroom—the master chamber—has its private bath with shower substituted for a tub. The valuable feature of this room is its easy approach—just across the hall —to the little balcony that overlooks the living room.

Such a multitude of convenience details have been embodied in Beaumont's representative home ideal that many, perchance, have been overlooked. In any event, the Beaumont Building Material Company set about to give the citizens a truly artistic and completely equipped home and they have succeeded mightily. Credit to them and to their architects, Livesay & Wiedemann of their city, is signally deserved for meritorious work.



A hall of great simplicity yet not one that lacks impressive dignity. A very creditable detail feature.

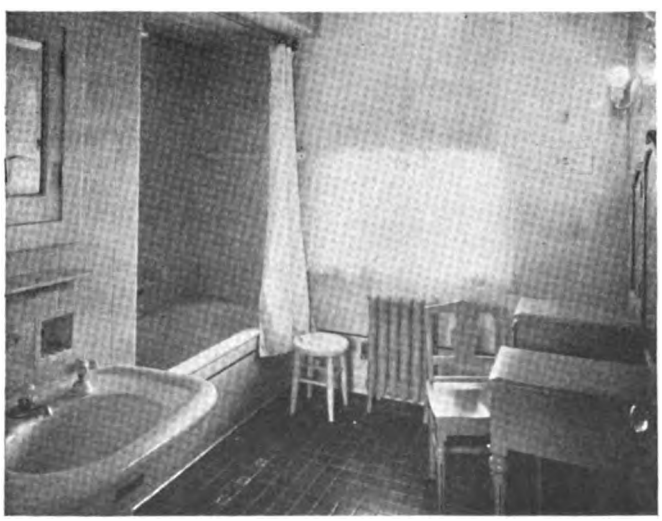


A large part of the second floor is given over to upper part of living room as shown.

Those communities which have not yet realized their hopes for the home ideal will find a splendid lesson in the work that Beaumont builders have performed here. Their purpose was in the main altruistic and they were able as a consequence to enlist the cooperation of many public spirited merchants and craftsmen.

The building company admitted a two-fold purpose; one to foster a civic enterprise and, to build a home that would stimulate business for themselves. This last, they claim, is a selfish reason. It can not be rightly termed

Everything in modern plumbing fixtures that one might wish. Dressing table is a feature of increasing popularity. Shower arrangement is very good indeed



One of the bedrooms with adjoining bath. Here, the electric fan is an integral part of lighting fixture overhead. Furniture was loaned by a local firm



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popularity for the small residence.

This is the fifth model home that the Beaumont Building Material Company has built. It is the largest and finest, showing that their previous efforts attested to the success of this type of promotion medium.

The builders have made the following acknowledgments to "Those Who Have Helped Make the Ideal Home a Reality":

Roof by Johns-Mansville, Inc., New York; Oak Flooring by Long-Bell Lumber Co., Kansas City, Mo.; Art Glass by Pittsburgh Plate Glass Co., Pittsburgh, Pa.; Wall Decorations by the Craftex Co., Chicago; Door Bed by Murphy Door Bed Co., Chicago; Waterproofing by Toch Bros. and Johns-Manville, Inc., both of New York; Interlocking Tile by Fraser Brick Co., Dallas, Texas; Face Brick by Reliance Brick Co.; Doors by Wheeler, Osgood Co., Tacoma, Wash.; Metal Lath by Northwestern Expanded Metal Lath Co., Chicago; Living Room Floor Tile by American Encaustic Tile Co., Zanesville, O.; Plumbing Fixtures by Kohler of Kohler, Wisc.; Refrigerator (Frigidaire) by Delco Company, Detroit; Floor Base of Nailcrete; Hardware by Wilson Hardware Co.; Lighting Fixtures by Thompson-Lockhart Electric Co.

These firms deserve the reward that goes out for good craftsmanship and cooperation in a worthy cause. Most of them are national organizations. Their cooperation in this Southwestern home has opened a splendid means of presenting their products to prospective home owners.

that for were it not for the commercial aspect this type of promotion home would not be possible.

The value of the model home need not be dealt with here. Builders know its value as a sales medium and, equally important, as a means of educating the public to fine construction in the small house field.

Landscaping this home has been carried on with the idea in mind of lessening its height. In Beaumont and vicinity the land is flat and too high a building would be conspicuous. The shrubs that appear in front of this house, when they have reached their normal height, will materially shorten the vertical expanse that the facade reveals.

Forty sprayers spaced about fifteen feet apart are spaced about the grounds with nozzles flushed with the level of the earth. Underground pipes feed these sprayers with a supply controlled by a single valve.

Electrical work in the Ideal Home represents a job complete in every detail. Aside from the wiring for lighting, each room is equipped with a plug for telephone extension and another for radio reception. These are two convenience features rapidly growing in

THE entrance hall above boasts a door of true craftsmanlike construction. Proportioning is good and the whole in fine harmony with the house. At the right, a view into the dining room, showing artistic treatment of opening. Two steps raise one to the higher level.





A CORNER in the living room that bespeaks a cheery, homelike atmosphere. It shows in details the tiled floor and plastic wall treatment. This is one of the spots that enthused 30,000 visitors to this Home Ideal. Interior is all as pleasant.

This is only one of the many pleasant aspects of the model home idea.

"The Beaumont Enterprise and Journal," who helped to foster this enterprise, published, on the day before the house opened, a special edition, incorporated in which was an "Ideal Home Section" devoted to stories of the house in its various details and to the advertisements of cooperating firms.

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The Rebuilding Of a Shaken City

By Frank H. Williams



This is the new type of Spanish that will grace rebuilt Santa Barbara. In the windows of the bell tower, attractive signs are incorporated in the design

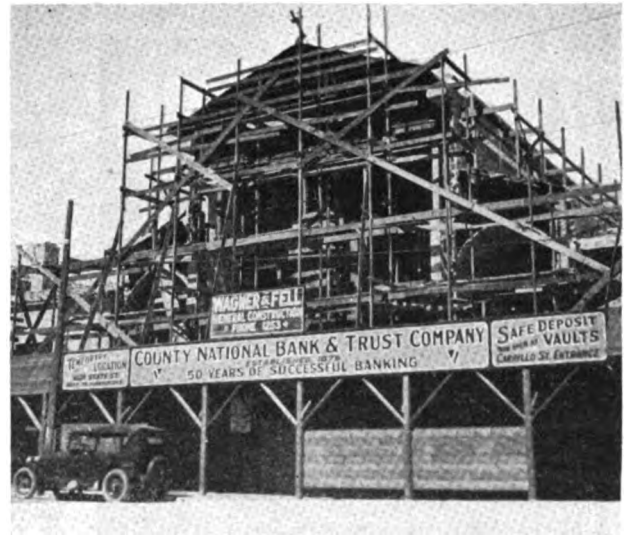
NOW Building A Bigger and Better Santa Barbara."

This is the slogan that is seen everywhere in Santa Barbara these days. On the windshields of automobiles, on builder's scaffolding, in the ruins of the business section, on trucks and billboards.

And that is what Santa Barbara is doing at an expense for construction at the present time of $8,000,000 to $10,000,000—it is building a bigger and a better city from every standpoint.

Certainly Santa Barbara has every opportunity in the world for doing this because there is scarcely a building or location in the business district that is not undergoing repair work or rebuilding of some sort. The earthquake, in fact, absolutely knocked the "spots" out of Santa Barbara's business district, in spite of the fact that the East minimized the damage.

A new building ordinance was passed by the city council, almost immediately after the quake, classifying the various sorts of buildings in accordance with the methods in use in other Southern California cities. As a result of this ordinance and because the citizens wish to put up better structures more iron work is going into Santa Barbara right now than the city had in all its structures before.



ELSEWHERE in this issue is a story on the County National Bank and Trust Building with pictures taken three days before the earthquake. The structure was not demolished and above is shown the work of refacing the front.

Reinforcing, it has been proved conclusively by the quake, stands up best when tremors shake the earth.

With this fact in mind, Santa Barbara is reinforcing its new brick work quite strongly, using a great deal of iron. The result is that the city will be in a much better position to weather any possible quakes in the future. But all the residents say that Santa Barbara has had its quake and that it won't have another, for a hundred years or more at least.

But while Santa Barbara's energy in tackling the rebuilding problem so quickly and so effectively is interesting, the most interesting feature of the great rebuilding program now going on is the fact that the city when it emerges from its scaffolding will be entirely new.

The great majority of all the structures which are now being rebuilt

(*Please turn to page* 146)



A drug store of unusual architectural merit. Note balcony traversing the front with sign an integral part



Beautiful Mission arches set off this store building and give it a distinction rarely found in commercial design

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Something Different in Bank Buildings

Described by J. Harold Hawkins

TO MAKE the small financial edifice artistic and at the same time to maintain a sufficient degree of conservative dignity is a problem to try the ability of any architect. Large bank buildings can be designed and built to carry out an idea of magnificence and monumental dignity. They too, must be artistic, but designer and builder do not have to seek so far from the beaten path to effect these results. The small bank field. however, opens up a wealth of opportunities to the architect and builder who have "ideas" in the larger sense.

The classic school of architecture is usually resorted to in our rigid East. Its lines are stately, yet severe and more than often the results do not win entire approval of the passerby. In the Southwest where architectural standards are more lenient and are governed mainly by the purely artistic, bank designers are given an opportunity to fulfill their desire for "something different."

The County and National Bank Building of Santa Barbara, Cal., is an excellent example of a radical departure from the commonplace in bank design. The attractive structure displayed here has about itself what might be termed an aristocratic appearance, a certain individual dignity and definite identity. Yet it carries an air of romance as well.

The main proportions of its exposed walls; that is, its height, width and roof lines, mark it as well balanced and pleasing to the eye. Probably in the proportioning of these masses its creators have found the means of combining dignity with charm.

Treatment of the exterior has been carried out with striking Spanish suggestion. A flat putty color distinguishes the stucco, while a roof of red tiles and arches of the same material give the necessary Latin touch to the Californian school of architecture. To perfect exterior harmony all ouside woodwork is finished in black, contrasting pleasantly with gold draperies seen through the windows.



The entrance facade is exceptionally pleasing with tall, arched entrance, flanked on either side by pilasters of Corinthian design. Here is added the necessary touch of dignity and security that we are accustomed to find in our American Bank building.

Within, the rich high ceiling is done in mission oak. This same panelling treatment is carried out to the wainscoting around the lobby. The office furniture and directors' table and chairs are of rubbed mission oak, while a floor of dark red, Spanish tile forms interesting contrast. The most impressive feature, however, is that of the interior classic columns; a row of them

A TALL arched entrance opens to the lobby. Woodwork is dark and through the window one finds a pleasant contrast in gold curtains hung conspicuously. On either side of the doorway is a column of Corinthian design

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The County and National Bank Building Santa Barbara California

Myron Hunt Architect

standing on each side of the lobby and reaching from the floor to the high ceiling. There are ten columns on each side. A balcony extends across the end of the building over the vaults.

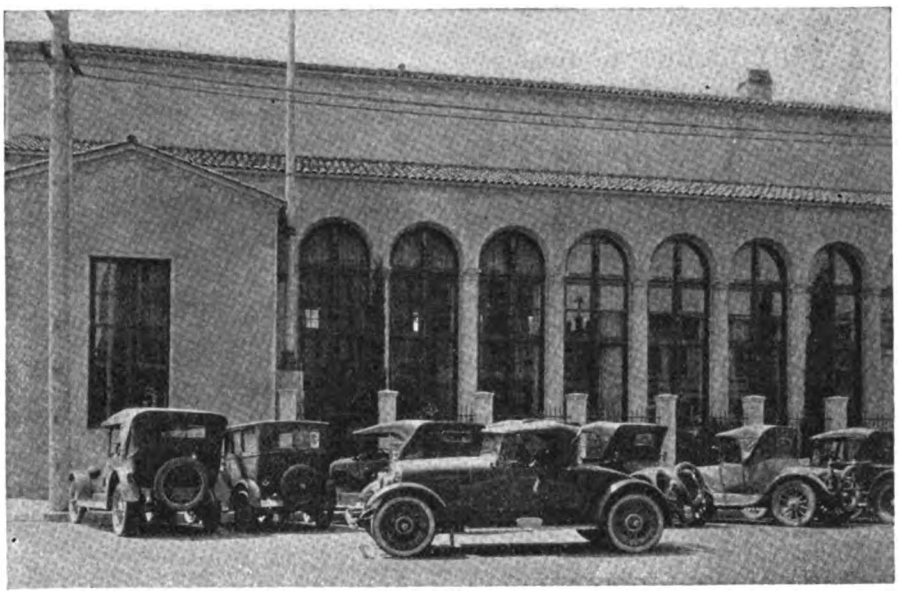
The plan is simple and follows the general lay-out that is being used successfully in bank design today. It is realized that ample provision for client's working space is necessary if an air of quiet is to be maintained. Cramped working quarters will result in crowding the lobby and creating an air of bustle and turmoil.

Back of the counter that separates client from employee, most of the space has been given over to working space. An officer's room takes one bay while vault accommodations are found in the rear.

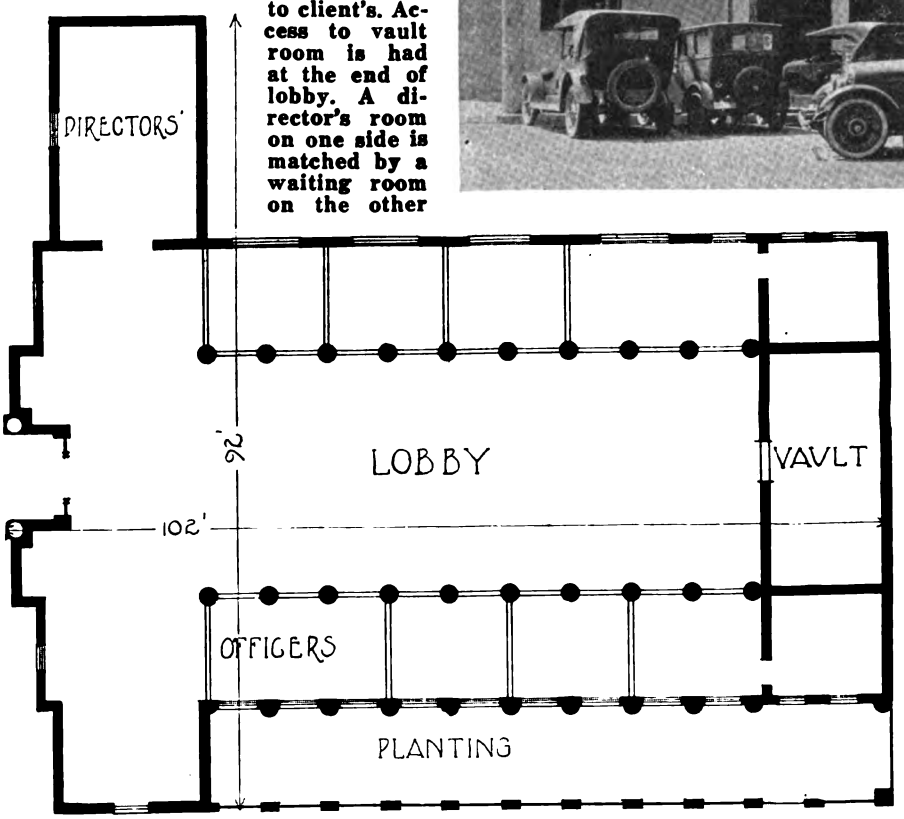
The side elevation has been treated in a similarly unusual manner. Columns feature the general view, there being one disposed between each of the arched windows. Between this side of the building and the sidewalk are planted low shrubs, and the landscaping is completed with an ornamental iron fence. Thus, there is provided a small private garden—certainly a unique feature to be found in connection of a bank building.

The effect of this row of arched windows looking out over a fenced-in garden does not seem incongruous in this setting of Spanish Mission splendor. The building is in perfect harmony with its neighbors and foliage adds just the necessary touch of distinction.

Further than the items described here there is little in the matter of detail that need be touched upon. The very nature of its charms is embodied in a lack of over-ornamentation and ostentatiousness. Its proportions, its dominating atmosphere of charming dignity, its simple unaffected treatment—all these belie description for they are the result of its designer's vision, rather than details to be described.



HIGH arched windows provide illumination along the side of the bank and their ornamental value is important indeed. Just the top of an iron fence can be seen that encloses a small patch of garden



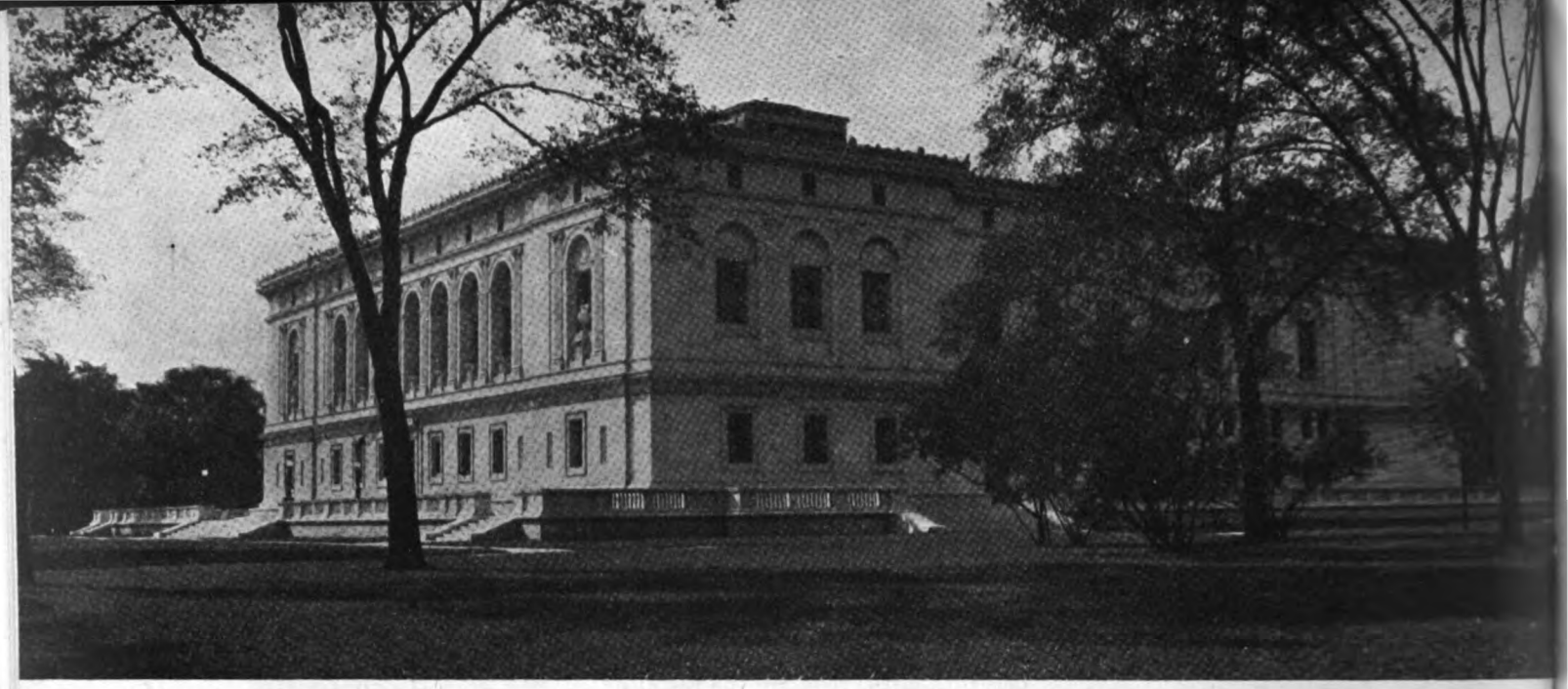
THIS plan shows how simple and yet how convenient is the apportionment of bank working space to client's. Access to vault room is had at the end of lobby. A director's room on one side is matched by a waiting room on the other

It is interesting to note that the Southern California Chapter of the American Institute of Architects awarded this bank building the certificate of honor. Myron Hunt, of Los Angeles, was the architect.

Editor's Note

The photographs reproduced here were taken three days before the earthquake shook Santa Barbara's main business thoroughfare to ruins. On another page in this issue is shown a picture of the rebuilding. A new face was needed and other extensive repairs.

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A Renaissance Library

A MONUMENT to Intelligent Citizenship, this architectural gem has been called. It is a monument to this ideal and, moreover, it is a lasting tribute to those whose efforts and whose inspiration have gone into the planning and modeling of a triumphant building

Detroit claims it as her main library building, but may not the nation hold it up as one of its great works of art? Certainly a conception as finely detailed as is this one may well be the national boast of a country new in classic achievements.

To those who know the Woolworth Building, New York's ever-awing spectacle of engineering skill, the name of Cass Gilbert is magic. Cass Gilbert designed the Woolworth Building and to add another mark of glory to his already unique record, he has given to the public this magnificent design. Working under him were many prominent artists. Names like Gari Melchers, Frederick J. Wiley and Mrs. Mary Chase Perry Stratton add distinction to any work with which they are associated. Edwin Blashfield, regarded as Dean of mural artists in this country, designed the series of paintings for the Grand Stairway.

Italian Renaissance is the precedent for the architecture. The main front facade at the first floor level contains seven arched openings forming an open loggia; the ceiling forms groined vaults finished with colorful mosaic.

The site provided for it along Woodward avenue, Detroit's main thoroughfare, has lent ample room for properly setting back the edifice.



ITALIAN Renaissance window of great beauty and harmony. Frederick J. Wiley is the designer. This is one of the nine windows embellishng the magnificent Delivery Hall

Detroit Public Library

Cass Gilbert Architect

The building is almost square—196 by 219 feet—and 60 feet in height. These vast surfaces in white Vermont marble present an ensemble of undeniable force. Surrounding the building on all sides is a broad balustraded terrace, floored in a combination of pressed brick and Indiana limestone panels. At roof level the building shows an ornamental frieze of white and gold, in harmonious relation to marble whiteness.

Before turning to the interior disposition of this building, the bronze doors that give entrance are worthy of attention. Ten panels make up each, depicting episodes from the Roman and from the Greek. The relief is low but definite of outline and each door is impressive in detail—even at a distance.

Just inside we come upon an entrance hall and to the Grand Stairway shown. Leading to the foot of this is a colonnade of columns, hewn from Tennessee marble. The ceiling is coffered with caissons and rosettes in high plaster relief touched with gold. Here and there touches of soft color are blended over the flat surfaces and give warm feeling to the whole.

At the right of this main entrance is the children's room—a gorgeous interior with the fireplace a center of attention. This was executed in tiles of the Pewabic Pottery Company. Mrs. Mary Chase Perry Stratton and Horace J. Caulkins were the craftsmen. On the wall above is a relief map of Michigan done in blue and gold by Frederick J. Wiley.

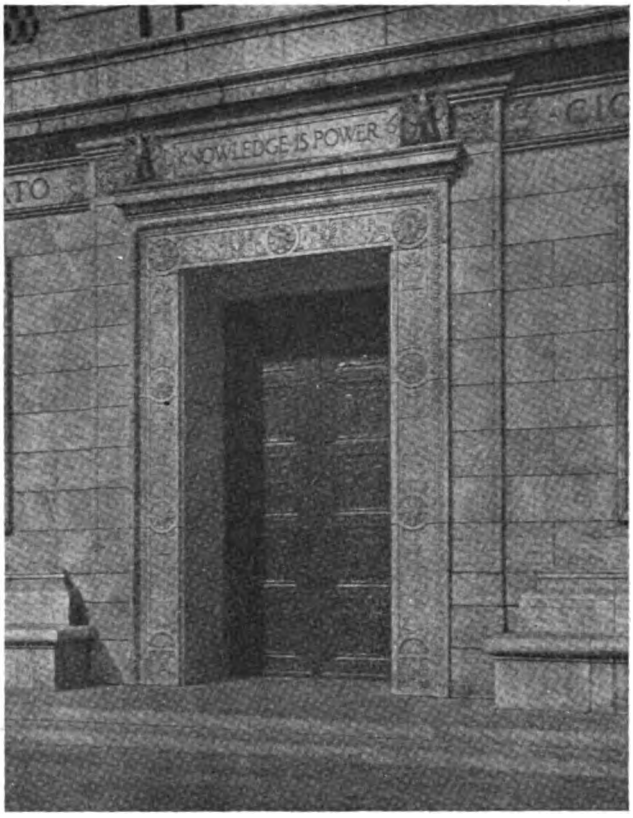
The crowning achievement of the

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interior is the Delivery Hall on the second floor. This is, in reality, in the heart of the building, reached by the passenger elevator or by the Grand Stairway. Its ceiling, thirty-six feet above the floor, is richly ornamented and decorated. Around the top run friezes of inscriptions relating to literature.

Returning logically to the first floor, it is well worth noting the arrangement of rooms and departments. Built as it was after many huge libraries in various parts of the country had been put into service, the designers here had much to choose from in providing the most practical of grouping. Opposite the Children's Room and to the left of the Entrance Hall is the Periodical Room. Within easy access of the street, it offers a splendid opportunity to the passerby for a leisure moment's reading. At the rear, the first floor has its stack room. Similar stack rooms extend clear to the top of the building, one above the other.

Offices, a bindery, and packing and shipping rooms take up the balance of this lower floor.



TEN panels depicting five Roman and five Greek episodes are the themes for these beautiful bronze entrance doors. The outline is sharp and the details clear. Each of these doors is a little over fifteen feet in height.

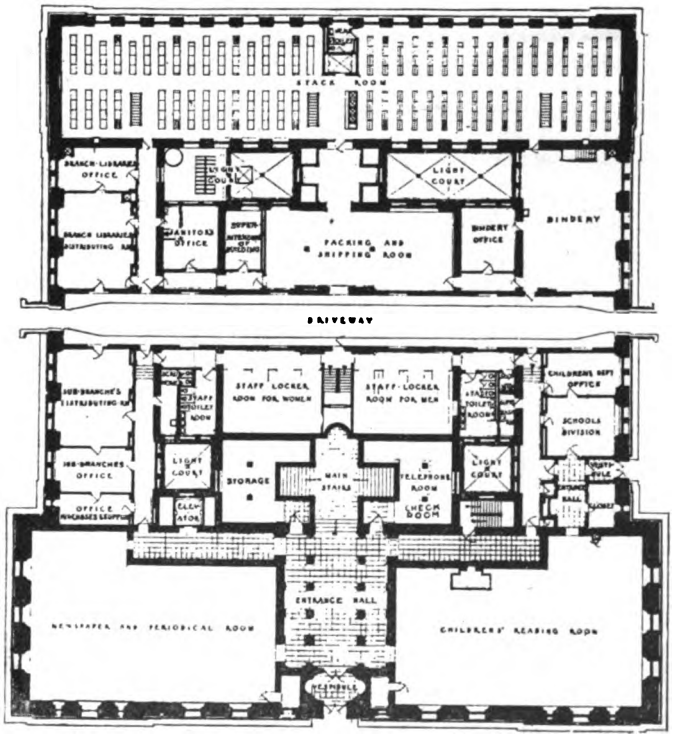
The mezzanine floor is lighted only by openings in the side elevations. Here are offices and catalog rooms and the upper parts of Periodical and Children's Rooms.

Aside from the Delivery Hall, the second floor offers the Book Lovers Room, shown here, the Music and Drama Room and various other reference departments. The plan will show how light courts have been worked in at salient points and how convenient the minor rooms are to the Delivery Hall.

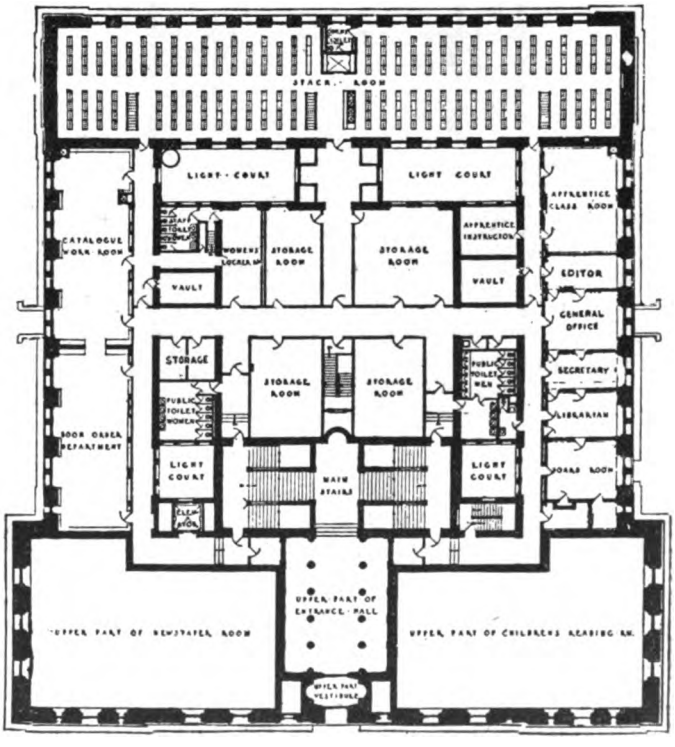
Atop the building, the third floor makes provisions for a technology department, a lunch room, and staff meeting and club rooms.

Reproduced here are two of the nine stained glass windows that beautify the Delivery Room. Mr. Wiley, who designed them followed Italian Renaissance and carried out a general color scheme of light silver gray, accented here and there with bright color. The windows in the West wall make this decorative scheme serve the dual purpose of admitting light

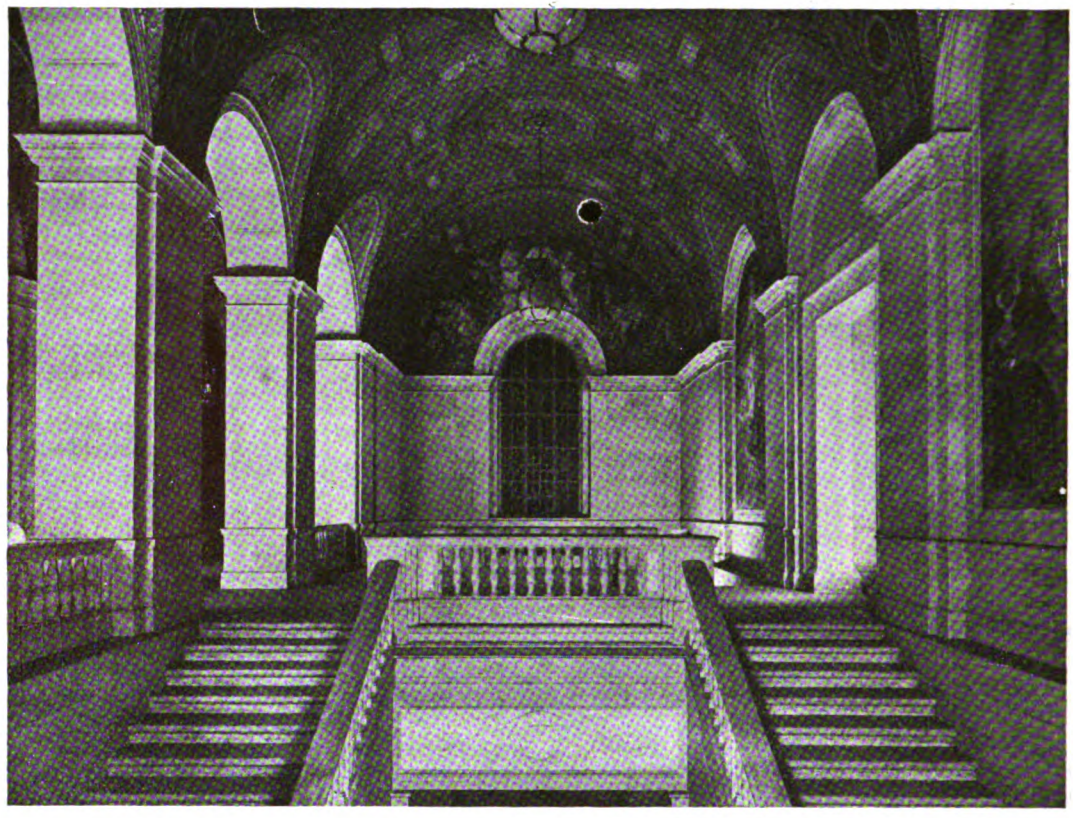
Plan of First Floor



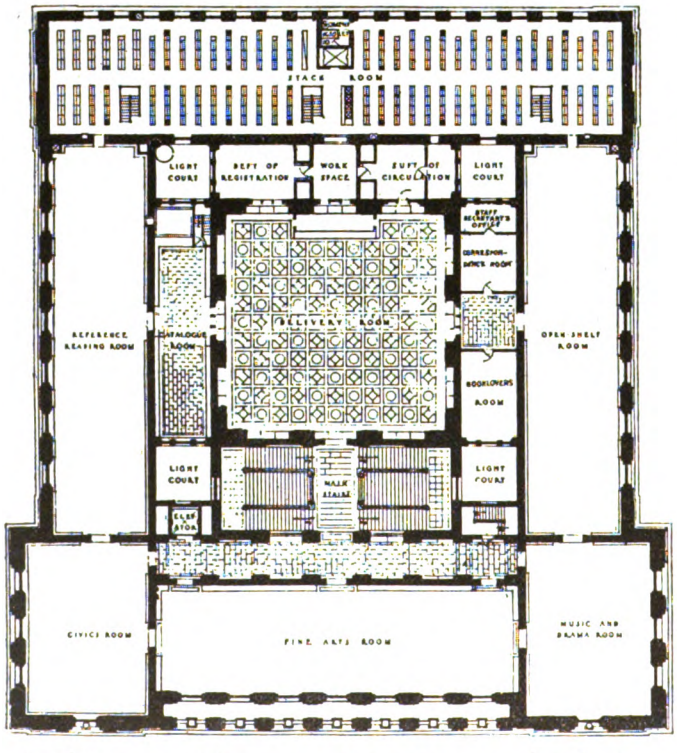
Plan of Mezzanine



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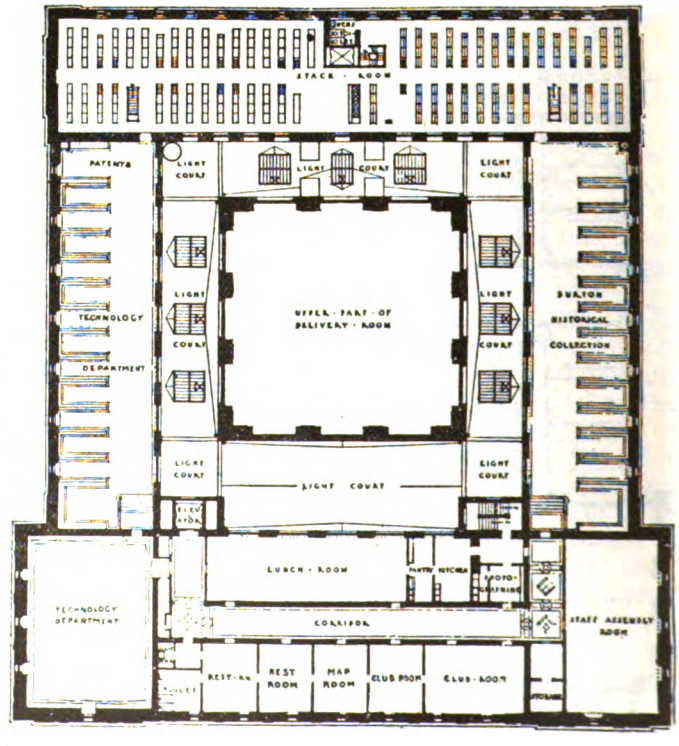
Carved marble is used in this impressive stairway—the Grand Stairway of the Detroit Public Library. Walls and ceilings are decorated in rich early Italian. Murals by Edwin Blashfield, regarded as the dean of American mural painters



THE second floor plan holds the crowning feature of this architect's master work—the great Delivery Hall. Around the room are various department chambers while a stack room traverses the rear. The third floor offers further storage and departmental facilities, including club and rest rooms

but at the same time masking the adjacent wall to the west. All of the nine windows are now completed.

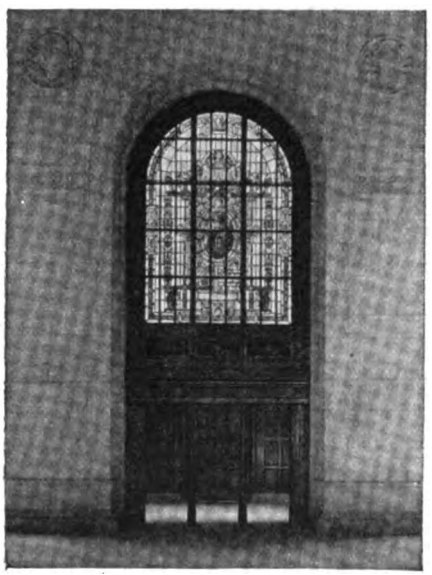
Description of this splendid edifice could never be completed in these few pages. The lover of architectural grandeur had best study the two general views that show the front and rear of Detroit's Public Library and



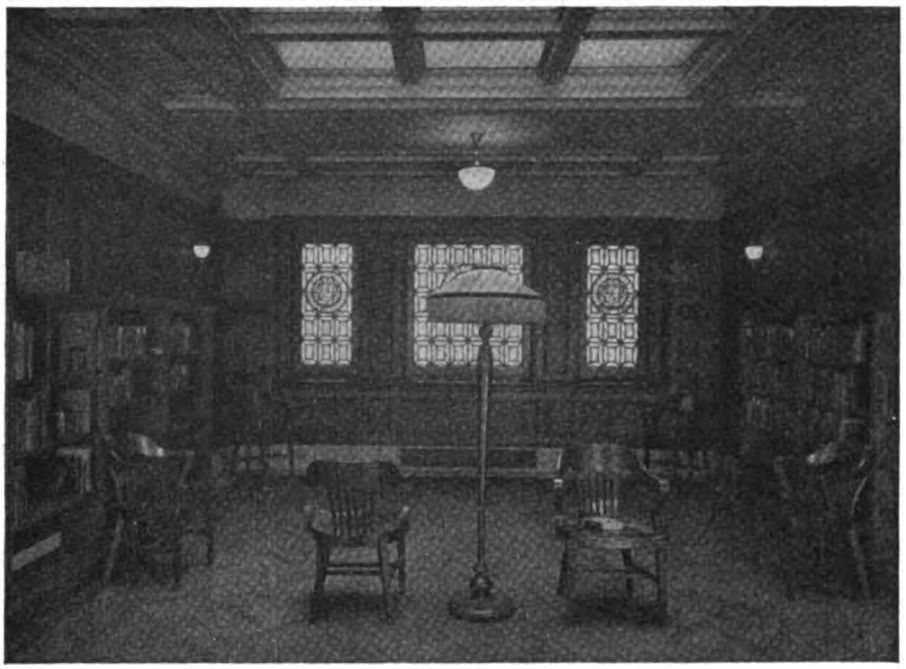
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the plans that bring out the indelible mark of modernity in this design. Much of the intrinsic beauty is, of course, embodied in the details and but a few can be given here. Countless hours of enthusiastic appreciation will be the reward to those who can journey to Detroit and see "in flesh," this superb monument to literature and to fine architecture.

In describing a work of this nature one is inclined to go into minute details of its many decorative features. The murals, for example, by Edwin Blashfield, are worthy of considerable space in themselves. Two of such paintings show in the view of the Grand Stairway, but these are only a part of the remarkable work that Mr. Blashfield has done to decorate the interior of the Detroit Public Library. The general themes covered are Agriculture, Art, Music, Painting, Astronomy, etc.



THIS window and eight others of equal beauty decorate the Delivery Hall. Each suggests an illuminated title page from some old book



The Book Lovers' Room. This is just off the Delivery Hall and offers an opportunity to provide "open shelves" of various works of literature for the visitor. It is within quite easy access of the street

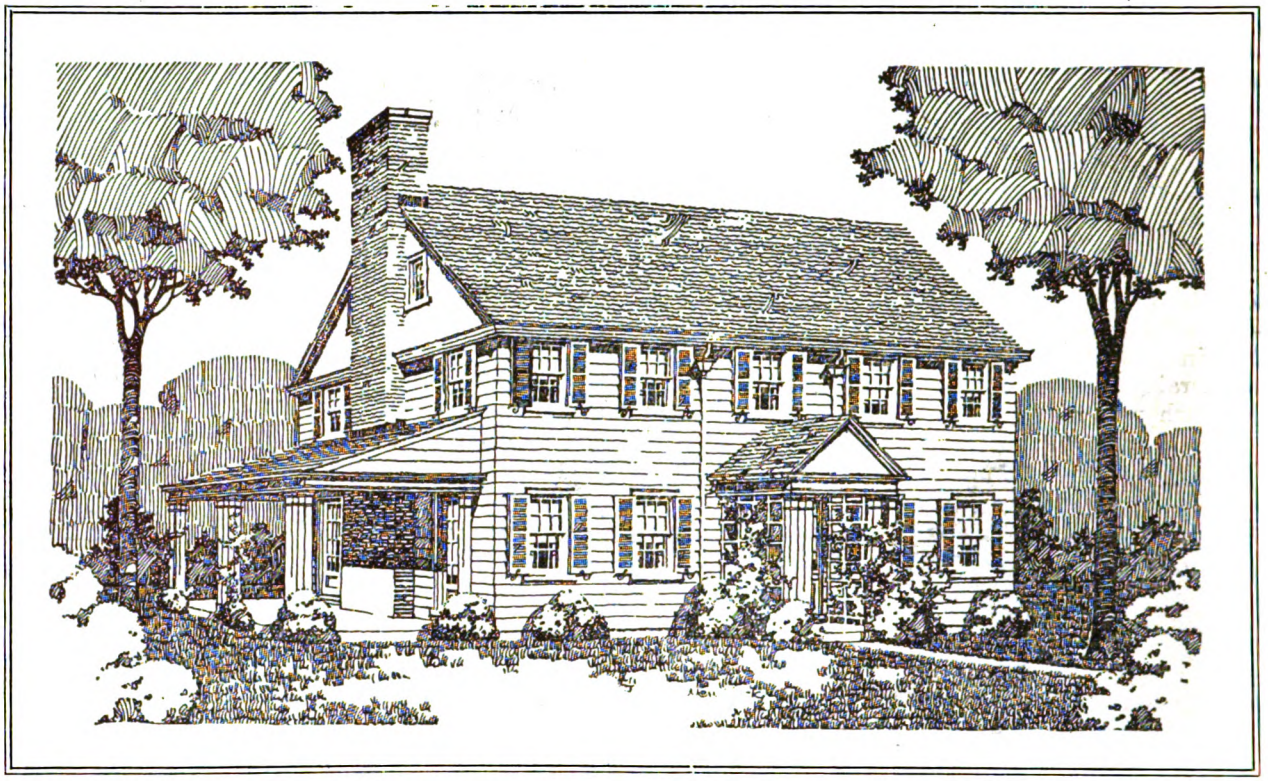
Then there is the bronze work that demands more than cursory attention. Beginning with the bronze lamp pedestals outside the building we might describe any of the number of these sculptured features throughout the building. The entrance doors, 15 feet in height, are only two examples of bronze worker's art, found in this design. Commemorative tablets, the ceilings of the entrance hall, and many other details stand out as masterpieces of craftsmen's work.

For the cooperation that the Library officials have given us we are deeply grateful. Their courtesy and their willingness to loan us material for reproduction have made the preparation of this a rare privilege.



A general view of the front of this magnificent edifice. The clarity with which each detail stands out is remarkable. Wall openings for the mezzanine are not found on this front facade. This floor is lighted by openings in the side elevation only. White marble and a cornice partly of terra cotta give an effect of grandeur

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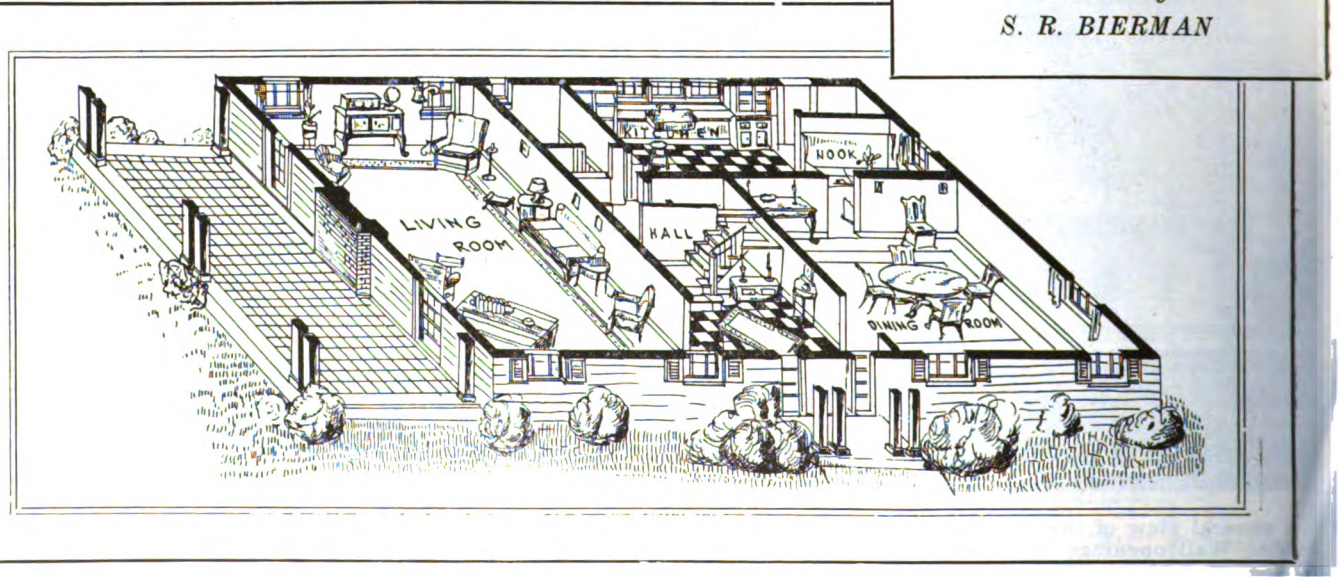


There's A Quiet Dignity In This New England Colonial

Designed Specially for Our Readers

By R. C. Hunter & Bro., Architects

PERSPECTIVE SECTION
Drawn By
S. R. BIERMAN



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OUR American custom of living makes severe demands on home design. The American home must be an attractive one first off; it must be bright and cheery and it must be one, for the most part, that calls for not too elaborate an expenditure of money. The American does not wait until he has accumulated a small fortune before he attempts to build his own house. Present financing has enabled him to invest small savings and consequently there has arisen a type of home that is compatible with the average means.

Adaptations from European and Early American types of architecture have been made with varying degrees of authenticity. True, every design cannot be labelled an accurate interpretation but, for the most part, our modern renderings have adhered to definite precedents.

The Colonial, for example, in any one of its various branches is interpreted today with admirable authoritativeness. Of these types the New England Colonial is perhaps the best suited to present-day demands, particularly, in northerly climate.

It has so many characteristics that render it desirable for modern habitation. It permits of a compact, rectangular plan and thus is economical. It enables multiplicity of units, such as doors, windows, shutters and so on.

In quality it possesses an indefinable dignity—a quiet dignity—yet it is not drab, on the contrary, it has personality above the average.

Described here is such a house and it shows convincingly how truly American is the New England Colonial. We do not need to look for foreign precedent when such a home has its origin in our country.

BLUE Print Plans and Specifications with Models of many Beautiful Homes of Moderate Cost can be supplied at a nominal price by Building Age and National Builder, 239 West 39th St., New York.

The side walls are covered with wide siding and painted white. Blinds, to bring out the contrast to best advantage, are an apple green. Porch floors are cement, marked off in squares and stained red. The chimney also is red. Here is a scheme of three colors that provide the necessary measure of attractive decorative effect.

WITHIN, the first floor room arrangement is built around a generous hall. To the left of this is a living room and to the right a dining room. The former has a fireplace and opens on a living porch. The dining room is practically rectangular—not too large for so little used a room—and directly off the kitchen. This latter has access to a rear entry and a tiny hall. At its right end is a built-in breakfast nook.

The second floor hall is the heart of the plan. Four bedrooms and two baths are included in the arrangement. Each chamber has its own closet while off the hall is a linen closet for further storage. Stairs leading upward from this floor take one to the finished attic where a maid's room and bath are located.

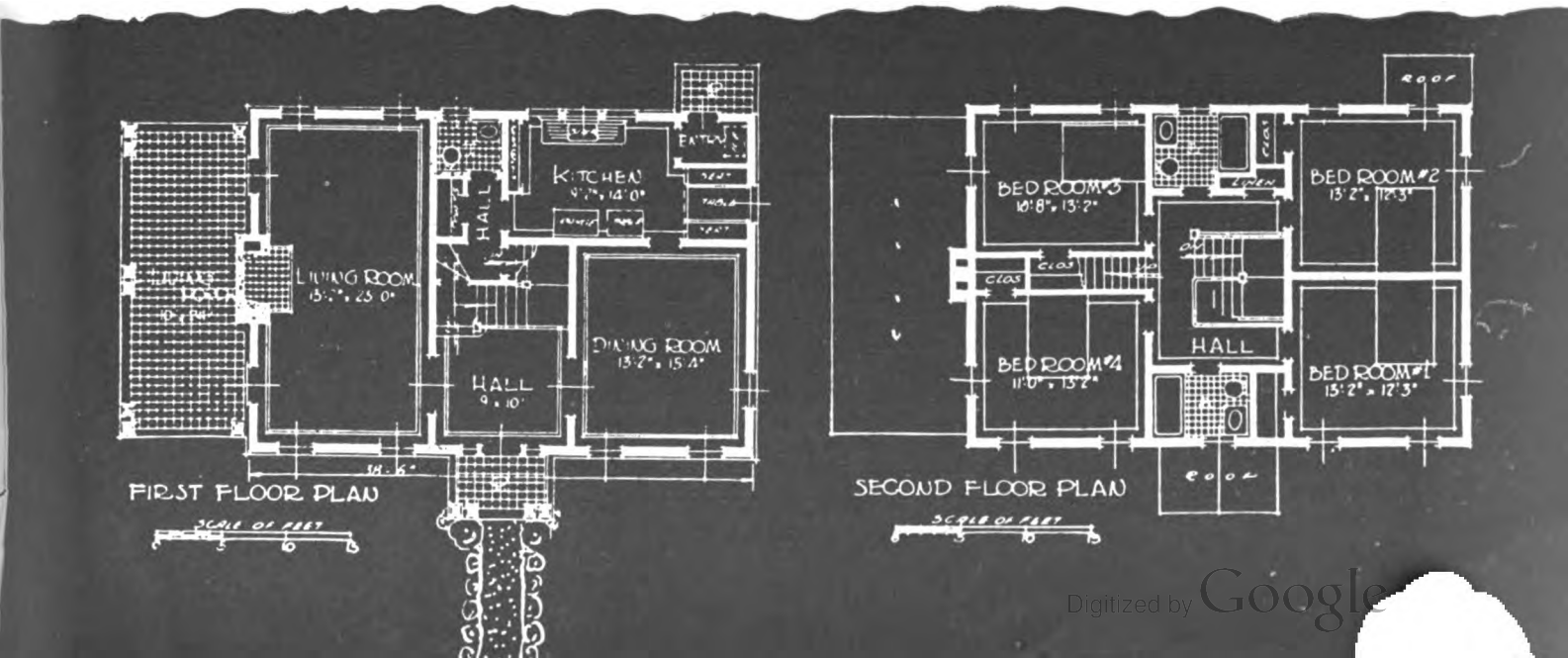
The plan, it is true, is in no way tremendous, but ample room has been provided for the small family. That is the feature of the New England Colonial.

THIS American type was brought to its fullest development during a period of rising prices. The people were changing from the country to the city and had no wish to lose any of the comforts of the farm house, the central hallway where coats could be removed, and which acted also as a storm entrance, being a prominent feature. They wished to preserve the large bed rooms to which they had been accustomed, the fireplace where they gathered on stormy nights to crack nuts and laugh defiance at the whistling winds. They did not want to feel cramped for room in a town house. So they transplanted the farm house to the town.

In the towns they found men who had studied the architecture of Greece and the Renaissance of the architecture of the ancient world. These men, carpenter-architects they are styled today, added to the frames of the doors and windows, to the columns of the porches, to the frieze and the eaves plain and tasteful decoration in moderation. The result was an honest type of house, a home for plain people of today, facing another period of rising prices.

SUGGESTED landscaping as shown in the pen rendering provides for little obstructing foliage in front. Such a design had best be left with full view of the street—adding only enough of shrubbery and trees to soften the effect. One tree at the side becomes as much of the house as though it were planted directly in front. The New England Colonial has so much intrinsic beauty that over-landscaping tends to detract rather than to add.

This home can be built for about $13,300. depending upon local building conditions.



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Derived from the Italian

The Plans in Blue Print Drawn Specially for Building Age and National Builder

THIS house belongs on the sightly lot with a view of distant hills, perhaps of water. With it goes the formal garden, the clipped hedges, the tall slender trees. The roof should have a distinct color, red, brown, blue or deep green. The stuccoed walls should be of clear white if in a location exposed to clear sunlight, or they may be of a faint yellow.

The exterior walls are of brick, but may be built in hollow tile or may even be of frame covered with stucco. The square shape is adapted to either of these materials. The designer has given thought to providing every comfort known to and demanded by American housewives. The fireplace with the side windows serves to carry out the Italian idea in the exterior.

Outline of Specifications

EXTERIOR:

To be of stucco on common brick or on tile or frame. Chimney of common brick stuccoed. Entrance platforms and pergola floor of face brick.

ROOF:

Roof to be of tile, in metal or any other material, if the Italian effect is to be carried out. It may be covered with shingles of either wood, asbestos, slate or asphalt. Leaders: rectangular in section, of zinc, copper or galvanized iron.

INTERIOR TRIM:

Of living room and dining room to be oak or chestnut. Kitchen, porch and second floor of white pine. Front doors of oak, other doors of beech or white pine. In some localities sugar pine instead of white pine may be used. Windows, sash and frame to be of wood. Steel sash and frames in basement.

INTERIOR FINISH:

Living room and dining room walls rough plastic finish on either plaster or wall board. Sand finish lined, will look well in living room. Kitchen, wallboard wainscot with tile pattern, enamel paint. Upper wall surface covered with washable cloth hanging. Ceiling painted, trim enamelled.

Rear entrance, closet, laundry and coal closet, two coats of cold water paint. Bedrooms, walls and ceilings to be papered. Trim, painted three coats. Hall finished to conform to living room or dining room. Storage and boiler room white washed or painted with cold water paint.

Bath room, walls tile effect half way up. Above, covered with washable oil cloth covering. Ceilings painted, trim enamelled.

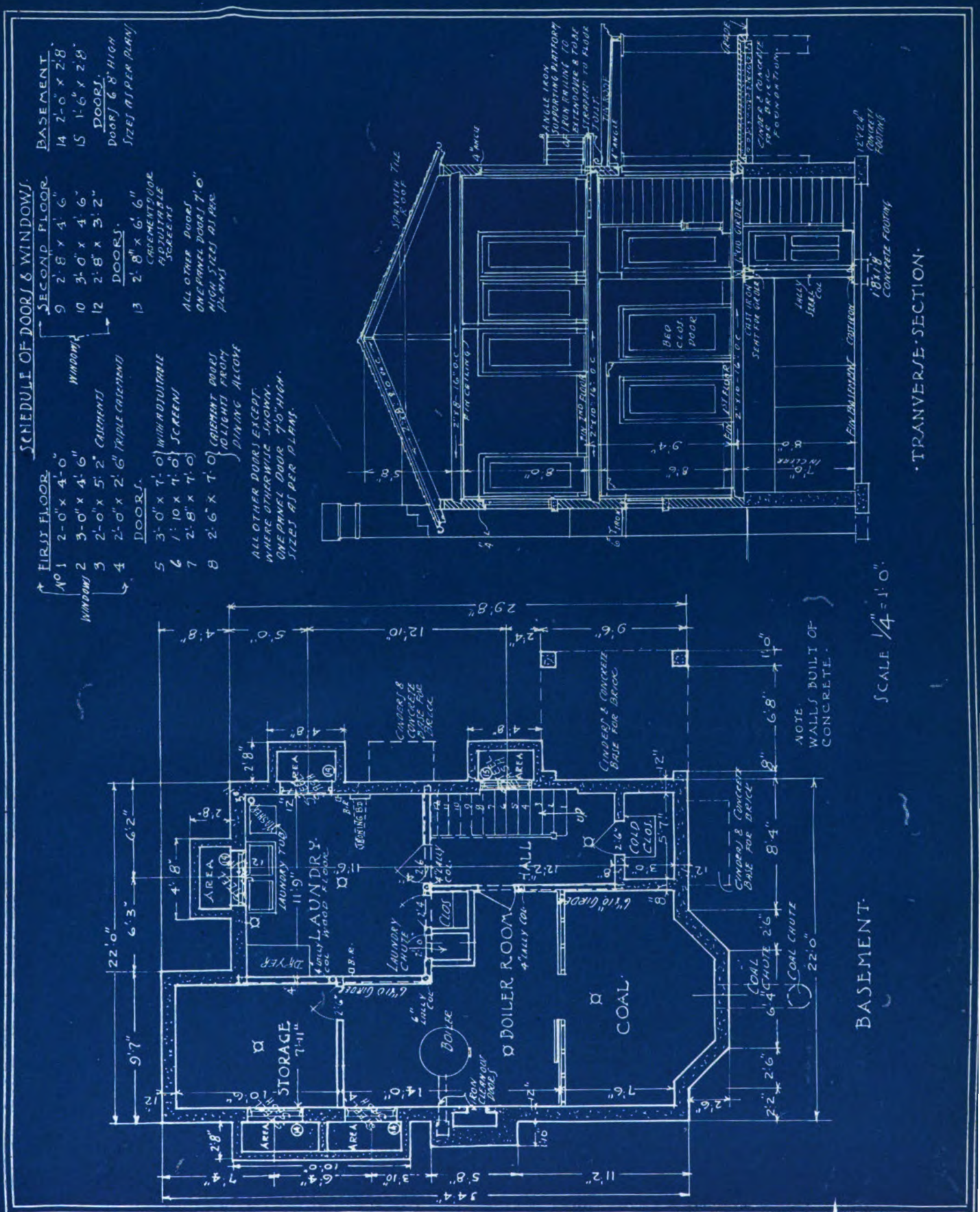
HEATING:

May be either of steam, hot water, warm air, or a combination of warm air and steam or warm air and hot water.

PLUMBING:

Sink, bath tub and lavatory of enamelled iron. Wash tubs of soapstone and toilets of porcelain. Vent and drain pipes of cast iron. Water pipes of brass. Gas connection to kitchen range, laundry and open fireplace.

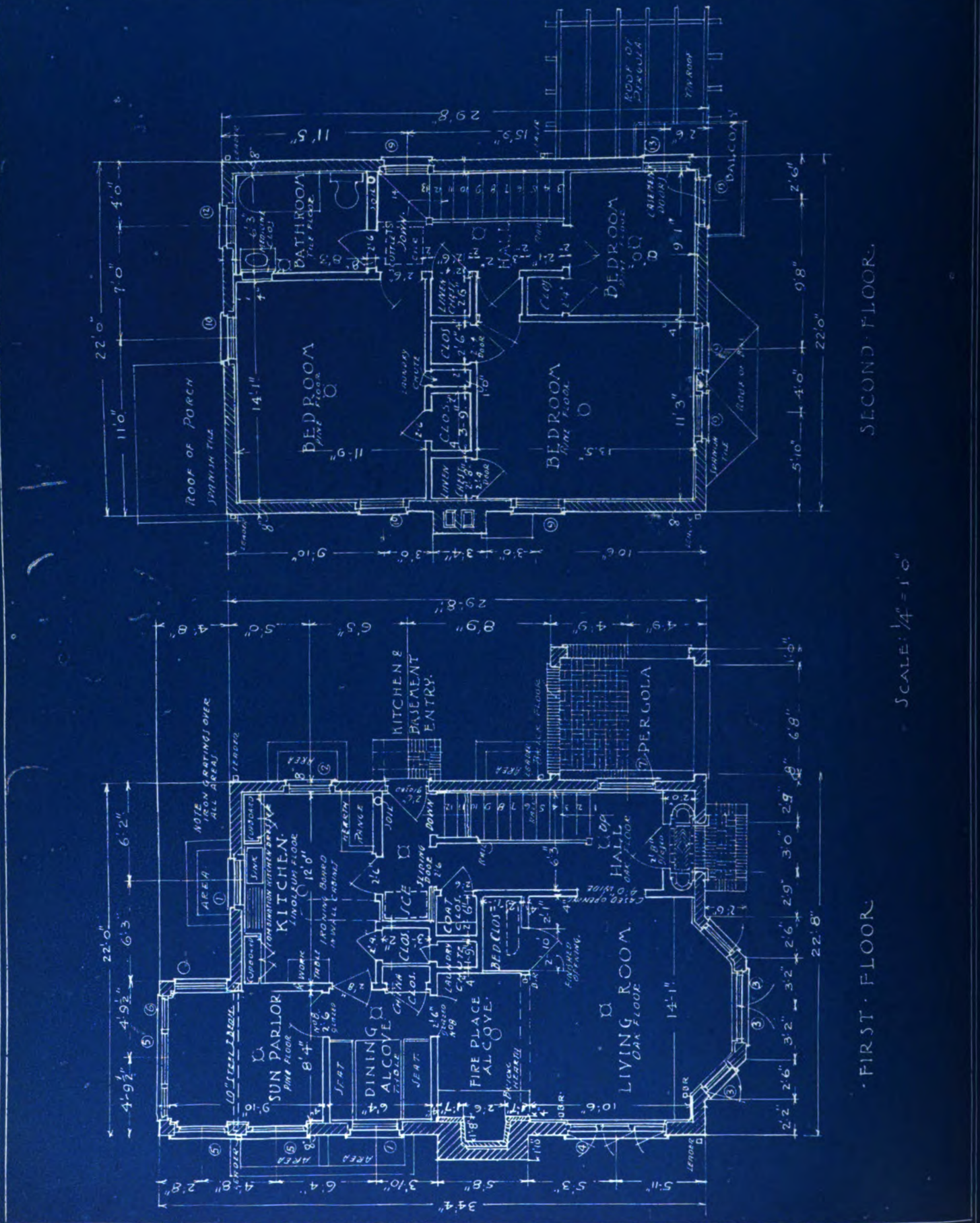
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BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS

Drawn by William Sanger

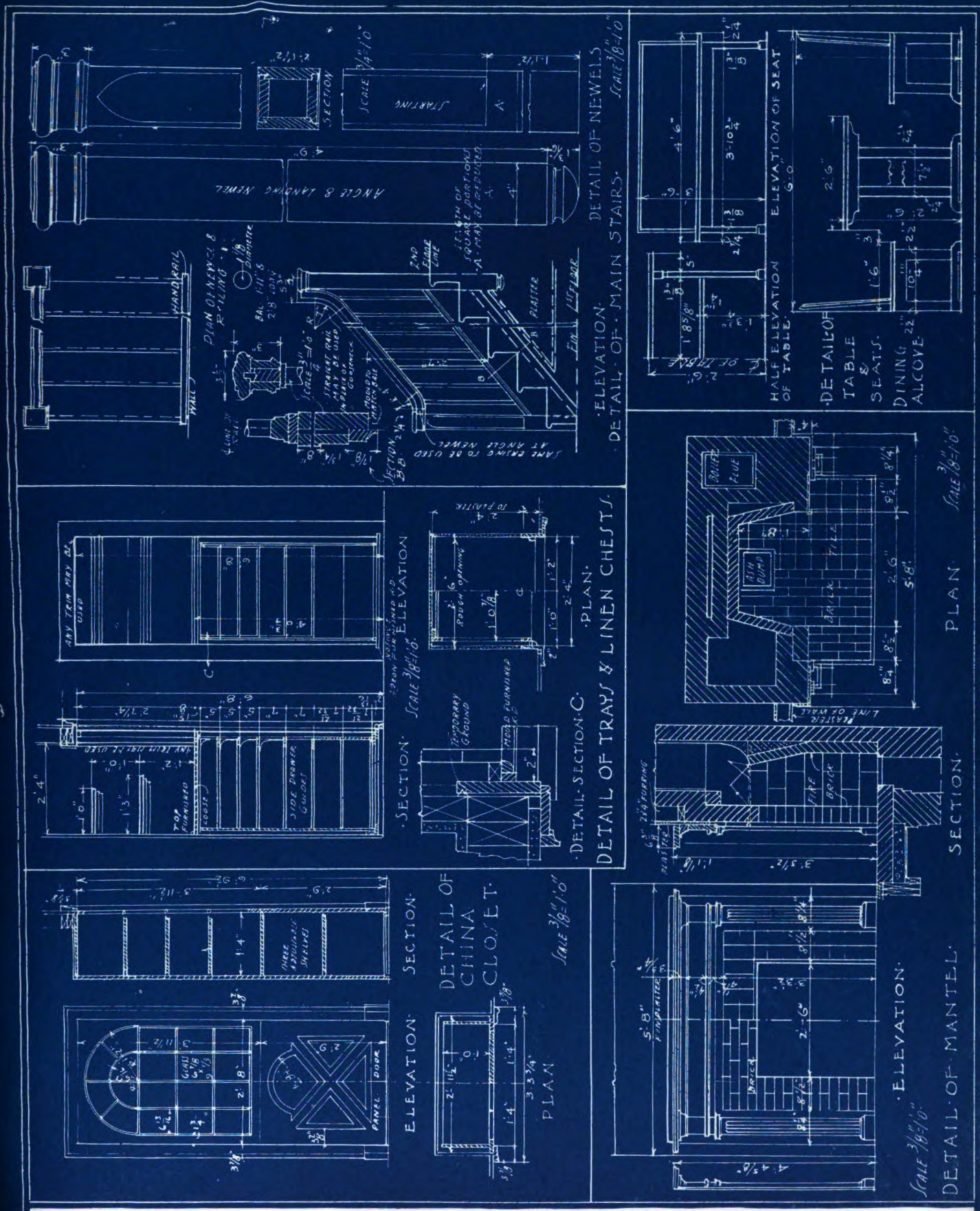
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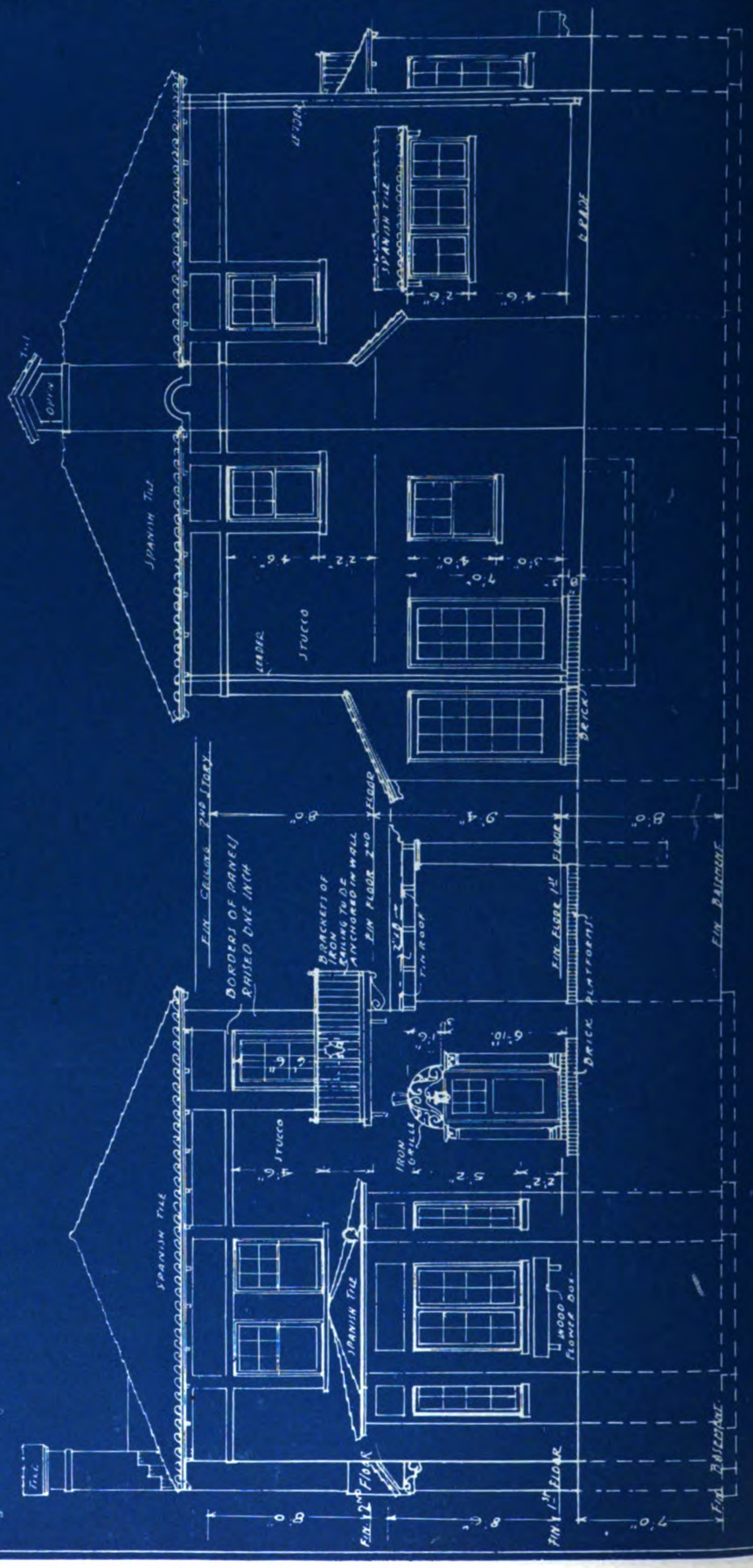
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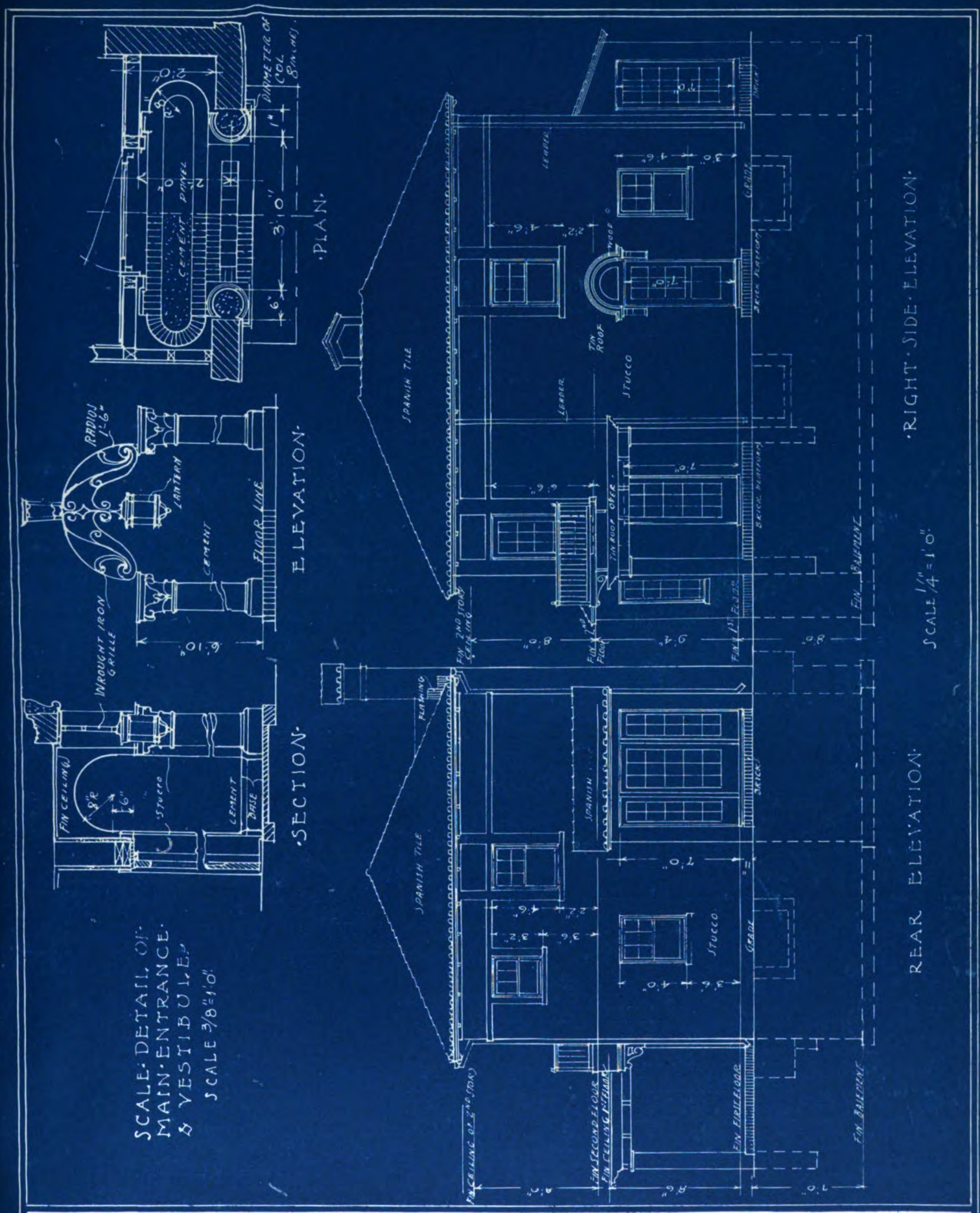
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BUILDING AGE AND NATIONAL BUILDER WORKING DRAWINGS

Drawn by William Sanger

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Quantity Survey of Materials

Prepared by Walter J. Fradgley

for

Italian Home of Stuccoed Brick

EXCAVATION

Basement (two feet larger than wall measurement)	263	cu. yds.
Trenches and pier footings	19	cu. yds.

MASONRY AND IRON WORK

Concrete foundation walls and footings	1125	cu. ft.
Concrete step foundations	34	cu. ft.
Concrete pergola foundation	40	cu. ft.
Concrete basement floor 3½" base, ¾" topping	664	sq. ft.
Concrete fireplace hearth 3" thick	20	sq. ft.
Common brick, exterior walls and chimneys	32,308	brick
Face brick for entrance platforms and pergola floor	594	brick
Face brick for fireplace	145	brick
Fire brick for fireplace	96	brick
Fireplace damper	1	piece
Ash dump for fireplace	1	piece
Cast iron cleanout door and frame	1	piece
Thimble	1	piece
Flue linings 8"x12"	52	lin. ft.
Anchor bolts for wall plates ⅝"x16"	25	pieces
6" Lally columns, bases and caps 7 ft.	4	pieces
10" Steel I beam, 9 ft.	1	piece
10" Steel I beam, 12 ft.	1	piece
Ornamental iron balcony platform and railing complete	1	balcony
Ornamental iron grill and lantern over main entrance	1	piece
6" Concrete columns, caps and bases, front entrance 6'10" high	2	columns
Wrought iron area gratings	44	sq. ft.
Angle iron lintels over openings	1540	lbs.

LATH AND PLASTER

Plaster on all interior walls and ceilings	610	sq. yds.
Basement ceiling and interior partitions	80	sq. yds.
Stucco on common brick	239	sq. yds.

TILE WORK

Bathroom floor	56	sq. ft.

CARPENTRY

6"x10"	Basement girders	210	bd. ft.
2"x8"	Wall Plates	160	bd. ft.
2"x10"	Floor joists (1st and 2nd floors)	1760	bd. ft.
2"x8"	Ceiling joist (2nd floor and porches)	704	bd. ft.
2"x8"	Roof rafters	971	bd. ft.
2"x8"	Pergola rafters	120	bd. ft.
1"x6"	Rough flooring	1450	bd. ft.
1"x6"	Rough boards	1288	bd. ft.
2¼"	Face finished floors	1510	bd. ft.
	Deadening under finished floors	12	squares
	Roofing	12	squares
	Furring and grounds	400	bd. ft.
2"x4"	Studs and plates, interior partitions	1699	bd. ft.
2"x4"	Basement and partitions	445	bd. ft.
1"x6"	D & M coal bin partitions	120	bd. ft.
1"x6"	Under gutter	64	bd. ft.
	Wallboard (if used)	690	sq. yds.

STAIRS

First floor to basement	1	flight
First floor to second floor	1	flight

MILLWORK

Closet shelving	60	lin. ft.
Chair rail, kitchen and bath	62	lin. ft.
Hook strip	60	lin. ft.
Base and quarter round	560	lin. ft.
Picture mould	272	lin. ft.
Mantel for fireplace	1	piece
Kitchen cupboard	3	pieces
Double drain board, sink top	1	piece
Medicine cabinet	1	piece
Linen chests	2	pieces
Dining alcove	3	pieces
China closet	1	piece
Work table	1	piece
Scuttle door and frame	1	piece
Wall case ironing board	1	piece
Exterior doors (frames and trim complete)	3	open'gs
Interior doors (frames and trim complete)	18	open'gs
Cased openings (frames and trim complete)	2	open'gs
Casement windows (frames and trim complete)	5	open'gs
Mullion casement windows (frames and trim complete)	1	opening
Triple casement windows (frames and trim complete)	2	open'gs
Windows (frames and trim complete)	12	open'gs
Basement windows (frames and trim complete)	5	open'gs
Basement doors (frames and trim complete)	6	open'gs
Pergola columns and caps	2	pieces
Rear entrance door (canopy and brackets complete)	1	piece
1"x3" Bed mould	140	lin. ft.
Flower box and brackets	1	piece

PAINTING

Exterior woodwork	21	squares
Interior woodwork	27	squares
Finished floors	12	squares

SHEET METAL

Gutters	112	sq. ft.
Down spouts	80	lin. ft.
Elbows	8	pieces
Chimney flashing	10	lin. ft.
Tin deck over pergola	80	sq. ft.
Flash and counterflash	29	lin. ft.

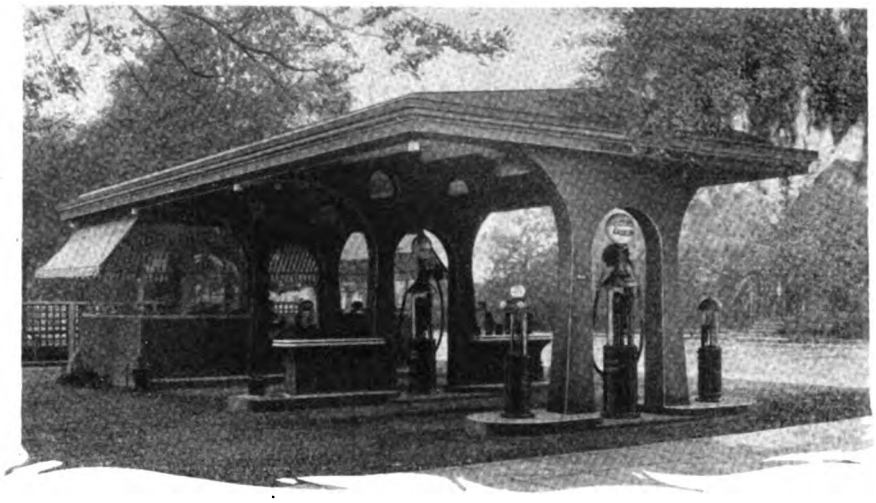
HARDWARE

4"x4"	Exterior door butts	4½	pairs
	Exterior door lock sets	3	sets
3½"x3½"	Interior door butts	17	pairs
	Interior door lock sets	17	sets
3½"x3½"	Casement sash butts	19	pairs
	Casement fasteners	26	pieces
	Casement adjusters	7	pieces
	Double acting door hingles	1	piece
	Door bumpers	21	pieces
	Coat hooks	6	dozen
2½"x3½"	Butts	14	pairs
	Cupboard catches	12	pieces
	Basement door hardware	6	sets
	Basement sash hardware	5	sets

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Trim Buildings Sell More Gas



IN terms of years, it is not long ago that the motorist wore goggles, his wife a motor veil and both of them long linen dusters. Then a trip of 20 miles into the country was an event and boys yelled, "get a horse," when the two cylinders were cutting up. And the danger of running out of gas was ever imminent. Gone now are the motoring togs, the cranky engine and gas shortages. Replacing the ugly repair shops where the dim outline of "BLACKSMITH" still showed through the sign "GARAGE," are spick-and-span service stations of truly inviting nature. The grimy repair man has given way to a white clothed gentleman who supplies your needs in a most efficient manner.

Now there is competition in the distribution of gas. The most engaging station attracts the motorist

Here the builder can step in and benefit both parties concerned. If on the one hand, he can turn the run-down service station into something of architectural merit he is being of service to his community. For his own part such jobs are easily executed and are splendid profit-makers. Better service stations are being built every day and builders who realize this are benefiting.

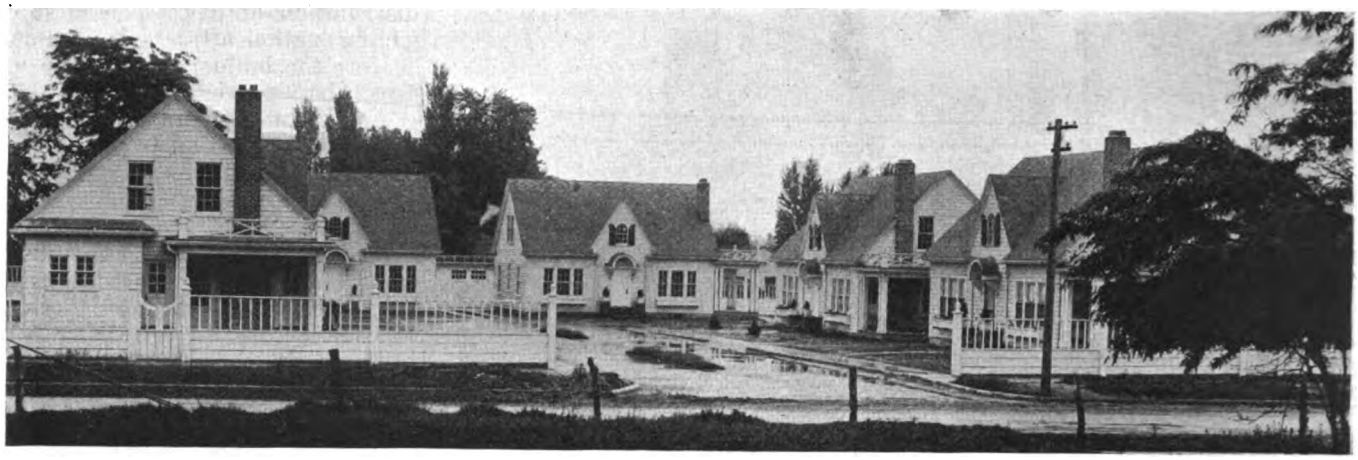
The designs of most of such stations are very simple. In one case the gas pump manufacturer furnishes the plans and other aid. Or the builder's own ingenuity will enable him to provide his prospect with a plan that will bring in trade. This sort of work is just another side line for the wide awake contractor.

Photos by Wayne Tank & Pump Co.



ONE would hate to be the across-the-street competitor of this gas station unless one's building looked unusually smart. Owners of untidy stations realize their disadvantage; they are always half sold on the idea of new, attractive ones. Everyone is interested in better looking buildings—owner, motorist, equipment dealer, and gasoline wholesaler—it only remains for the builder to step in with a good suggestion.

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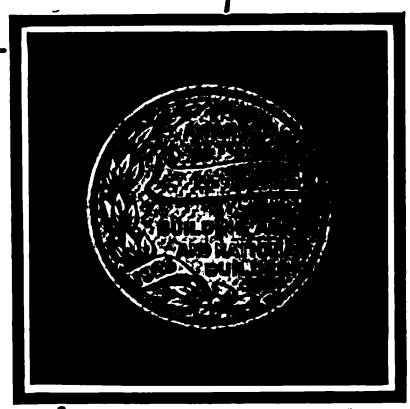


Here Are a Number of
The Best Selling Homes in America



The Gold Medal and Certificate

THE miniature above shows how the Certificate of appears. The original is 12x18" in size, handsomely engraved in sepia on parchment. We also show one side full size of the solid gold medal. The design is by a foremost specialist in this work. Each medal is mounted on a purple velvet background placed in a satin lined morocco covered case. Certificates and medals will be engraved with the lucky winner's name.

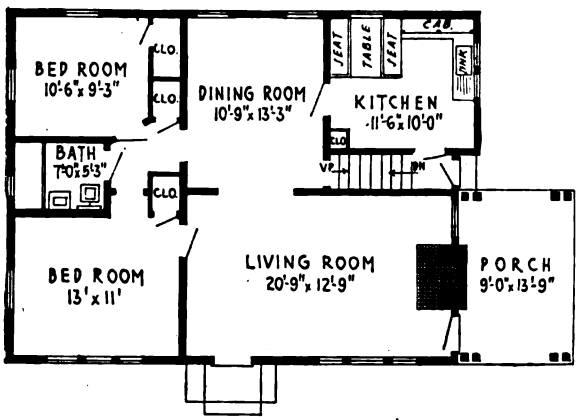


NEVER has there been a more commendable movement to determine just what "the best selling homes in America" really are. Every reader that appreciates its importance to the building field at large should make haste to enter his contribution with those of brother-builders.

December 1st has been set as the final closing date for all contestants. The magnitude of this attempt to select the most successful designs is such that we are able to offer each of fifty builders a suitable reward for his cooperation. The cause is worthy and the prizes will be well merited.

To the designer or builder of the ten selected as best will go a gold medal, an engrossed certificate of merit, a life subscription to BUILDING AGE AND NATIONAL BUILDER and a copy of the published book of designs. To each one of the next 15 successful contestants will go a certificate of Merit, the life subscription, and a copy of the book. The remaining 25 selected will each receive a.

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THE interesting group of bungalow homes on the opposite page is an entry from Mr. J. Alves Clore, Architect and Builder, of Henderson, Kentucky. In this artistic group of six bungalow homes traces of a colonial motif are evident. When this picture was taken the grading was not complete, still its beauty is apparent. An interesting arrangement of fences and gates have been used that adds attractiveness to the court. This group of six houses with garages have been placed on a plot of lot 208 feet square, and the houses sold for $5400 each complete.

year's subscription and a copy of the book. Fifty prizes in all.

In addition to all this, every design published will entitle its owner to a copy of the completed book. This book will be a published collection of those plans that are acclaimed "Best Sellers." On these pages are shown four typical contesting house designs.

Building specialists the country over are indicating their aproval of this movement. We need merely call to your attention that December 1st is the final date. Please act *now* so that the last few days will not swamp our department. A vast amount of checking is necessary and we ask you to send your material just as soon as possible.

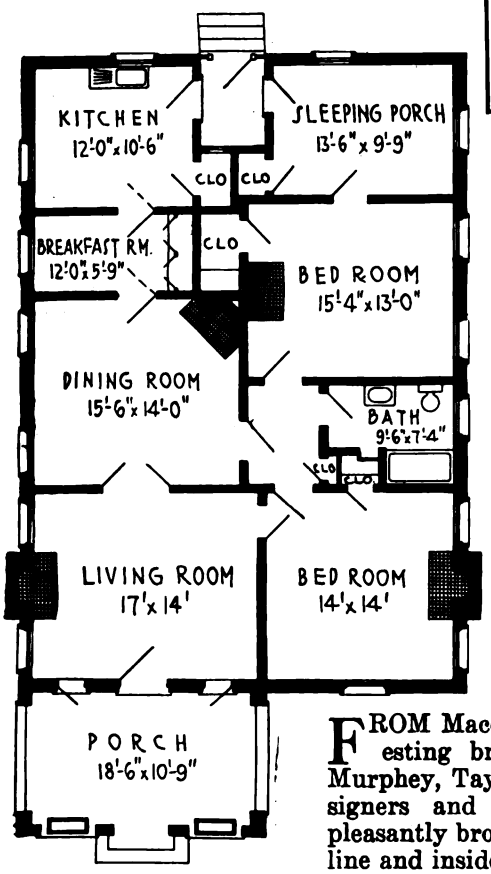
Is One of *Your* HOMES To Be A GOLD MEDAL Winner?

It is a crusade to help the sale of homes in America and your opportunity to cooperate has never been more favorable. By simply complying with the conditions you may propose yourself as a candidate in the circle of the "Gold Medal Builders of America."

Contributions to this campaign for Better Homes have been coming to us from nearly every state in the Union. As soon as the checking is completed we will publish the prize winning designs, also others that have exceptional merit, either in the way of good design or selling record.

What we want to do is to show the builders of this country what people are buying in the way of moderate priced homes.

There is little or no trouble in-





FROM Macon, Georgia, comes this interesting brick design as the entry of Murphey, Taylor & Ellis, who were the designers and builders. The exterior is pleasantly broken up by an interesting roof line and inside rooms are well arranged for comfort and appearance. As is often the custom in the South, the cellars have been omitted. Each room has been provided with a neat open fireplace for comfort on chilly days. Twenty-five of these interesting homes have been sold in Macon.

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Best Selling Homes in America Campaign

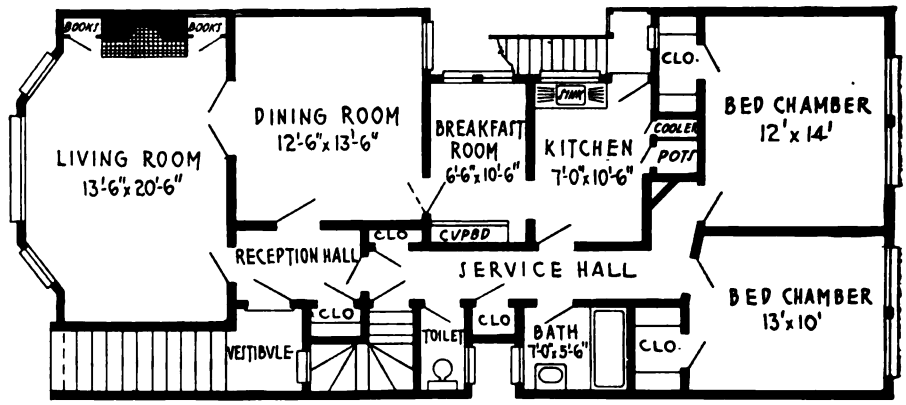


volved in entering the contest. We simply ask that each builder reader send us a photograph of his best selling house together with floor plans and data regarding how many of this particular house have been built and sold.

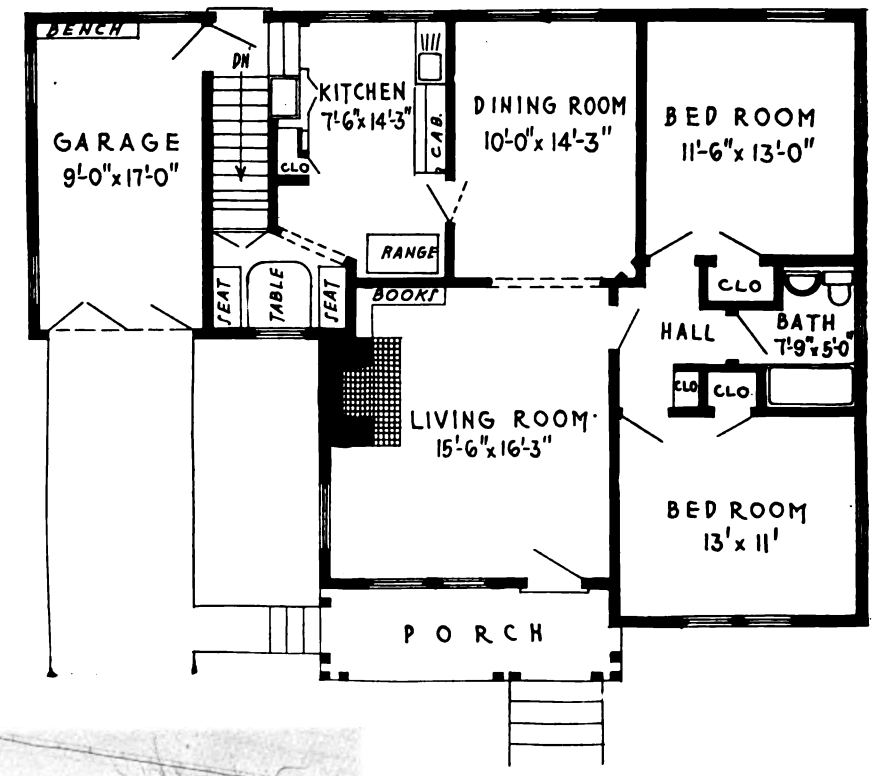
Full credit will be given to architect, builder or contractor, and the news of the awards will be broadcast to local newspapers which no doubt will be glad to publish the achievement of a fellow townsman.

No builder should hold back in the belief that his work is not worthy or that it stands no chance. All must realize that they are not only competing for an award, but they are entering and cooperating to promote the finest building proposition ever offered to the building craft.

It is in this way that the builders of this country will have before them



FROM the Pacific Coast comes a home design that is typical of San Francisco, designed and built by Chas. D. Delmarter to go on a 25-foot front lot. This particular house has been duplicated twelve times and they have been sold complete for $9,500., including lot.





HERE is a small, compact home design including a built-in garage, actual construction cost of which is $5200.00. It was designed and built by Hugh McClure & Co. of Kearney, Neb. The rooms are well laid out for the comfort of a small family, and are of fairly good size. One feature is the breakfast nook facing towards the front so that when dining a view of the outside may be had. A little convenient china closet is placed in this nook. The garage can be entered from the rear entrance, which saves going outdoors in stormy weather.

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The Last Day for Entries is December 1st, 1925

The Simple Conditions for Entering

SIMPLY send us: A statement telling how many of each were sold, where they were located and the selling price of each, and a photograph of the house or houses which have proved to be "best sellers" with you, together with the floor plans.

We will recognize your courtesy in sending us materials for publication in this way:

1—To the ten selected as "first" we shall present (a) a Gold Medal; (b) an engrossed Certificate of Merit; (c) a life subscription to Building Age and National Builder; (d) a copy of the Book of Designs.

2—To the next fifteen (a) the Certificate of Merit; (b) a life subscription to the Magazine; (c) a copy of the Book.

3—To the next twenty-five (a) a year's subscription to the Magazine; (b) a copy of the Book.

4—To all others whose entries may be published, a copy of the Book.

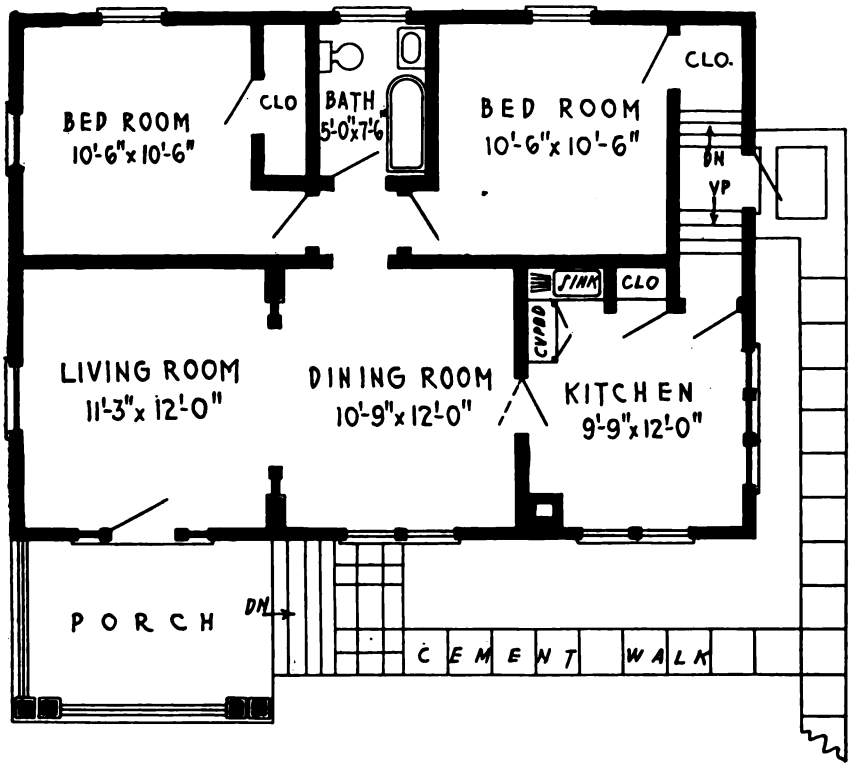
5—No entrance fee is required.

6—The Editorial Board of this publication will pass on the facts submitted and make the selections.

7—Any information marked "confidential" will not be published.

Address "Editor, Best Selling Houses,"

BUILDING AGE AND NATIONAL BUILDER
239 West 39th Street, New York

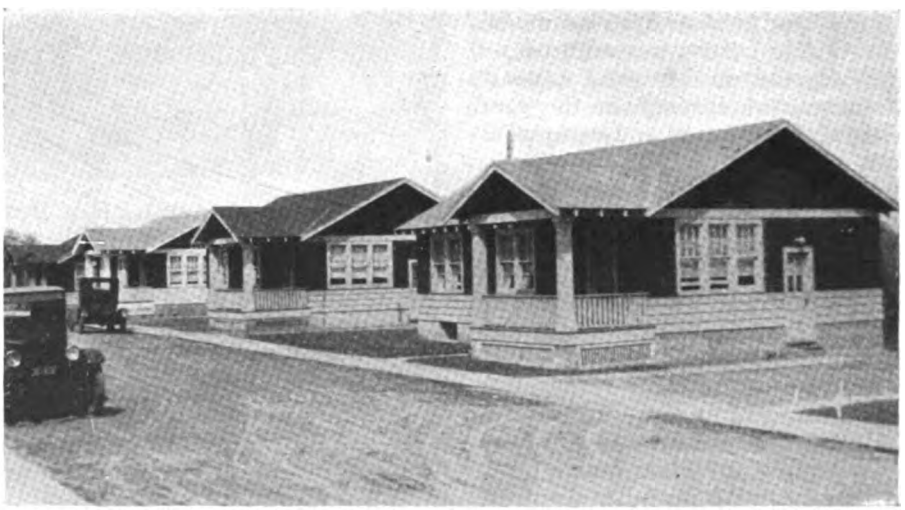


a true cross-section of the people's desires in the way of homes. In the designs already submitted in this campaign all forms of construction play a part:—Brick, stone, hollow tile, stucco, clapboard, shingles, etc., form the outside walls. Amongst the types shown are bungalows, one story and one-half, two story, two and one-half, detached houses, a selection of houses in a row, houses built in groups in court fashion, etc.

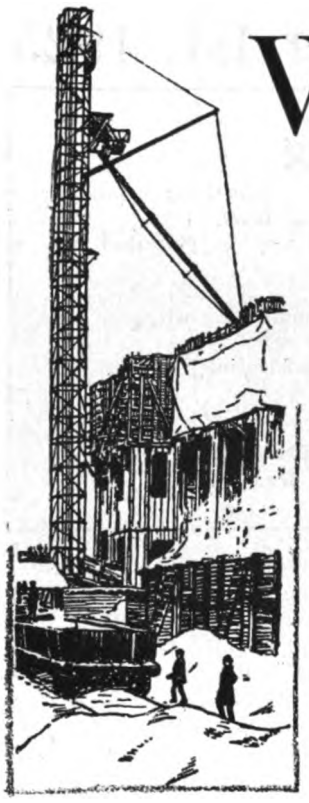
How this collection of designs will benefit every builder needs no further explaining on our part. The home designs entered in this campaign will show builders the best selling designs, the ones that are commercial successes, the ones which have brought cash to builders the country over. It is a campaign in which all should make an entry for the benefit of the industry.

Have you entered your best selling design? Let us repeat that December 1st is the final date. Do not overlook this opportunity to list your successful efforts with the rest.

FROM Hawthorne, N. J., Mr. William Kalff enters an interesting bungalow design of which he has built over 150. They are built on plots 60x100 feet in size and sold for $5000. each complete, including sidewalk grading, the financing and fire insurance are also taken care of. They have been sold on small cash payment down and the balance in monthly installments. In building this type of house some of them are reversed. This design is a very convenient five-room cottage with rooms of comfortable size, with plenty of wall space provided for placing of furniture.



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WINTER BUILDING and How to Do It

"THE seasonal character of the construction industries is a matter of custom and habit, not climatic necessity."

—Herbert Hoover

THE contractor who is faced with the possibility of continuing building operations during the winter months should ponder on the following statements issued by the New York Building Congress:

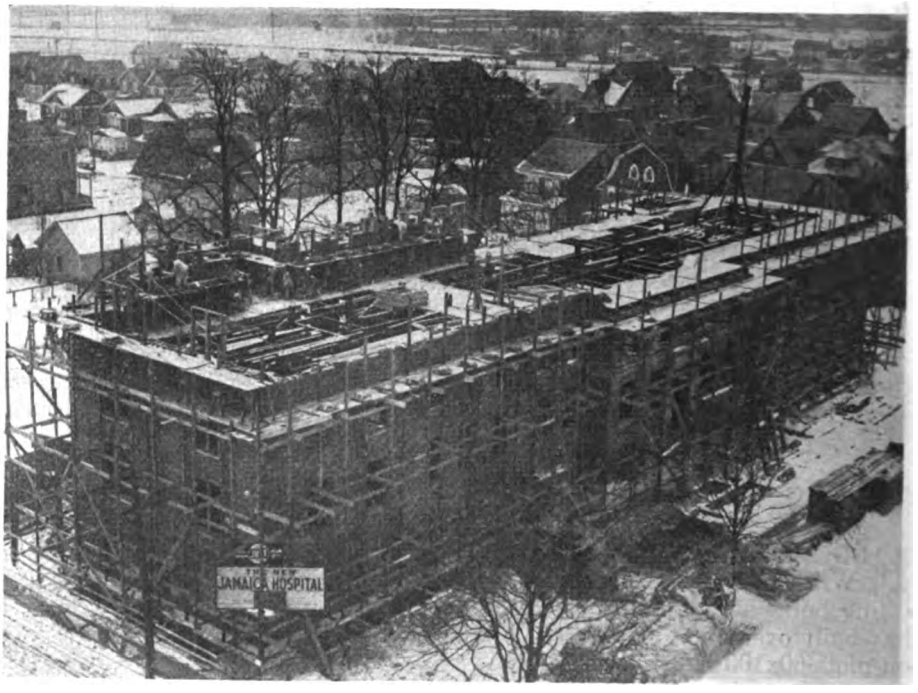
1. The direct additional costs due to construction carried on in cold weather are but a small percentage of the total cost of a building.

2. Such direct winter costs are more than offset by savings in other ways.

The indirect savings which more than counterbalance winter costs may be enumerated as follows:

1. Labor bonuses are eliminated.
2. Labor turnover is reduced.
3. Spread in overhead expense of contractors throughout the year reduces organization and equipment costs.
4. Tendency of contractors to lower their margin of profit with the idea in mind of securing sufficient work to keep their organizations intact during the winter months.
5. Seasonal discounts on materials.
6. Seasonal rates by transportation companies in order to relieve the congested periods.
7. Saving in interest and taxes on investments lying idle.
8. Earlier return on investment.

Contractors who still conform to old customs must now inform themselves upon the possibilities for continuing work throughout the winter months or lose out in the race with men who are more modern in their ideas and practice.



This photograph taken in January, 1923, during the construction of the Jamaica, N. Y., hospital proves that bricks have been well laid during the winter months.

The rough shelter occasionally provided for keeping some materials dry, as is usual sometimes in summer, is not sufficient for winter conditions. It is not however sufficiently more costly to be alarming.

Sheds which are seldom more in summer than roofs on posts to keep material dry, will do for winter work to keep off snow and ice, with the addition of walls. These walls will protect the material from snow which would otherwise blow in and at the same time will shield the workmen who must handle the materials.

Shelter for the workmen is necessary in order to induce them to work. One of the strongest reasons heretofore for shutting down in the winter was the disinclination of men to work where exposed. They will travel long distances for an opportunity to work on cold days when assured of fairly decent shelter. They do not demand steam heat for if protected against cold winds they

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will work hard enough to keep warm.

It has been noted that men work much harder when it is necessary so to do in order to keep warm than they work on warm, or hot, days. They also work harder when jobs are scarce and contractors during the winter profit by this. By shelter is not meant loafing sheds, but does mean enclosure of the work.

Enclosure of the work is necessary in order to protect the materials put in place from damage through falling temperature. Thus to enclose the work gives the men some degree of comfort while it protects the material.

When laying brick or stone with lime mortar it is not advisable to wet the pieces. They should be laid absolutely dry. All sand and water used should be heated. Slaked hot lime added to the water is a great help when cement mortar is used. On the whole it is best to use cement mortar instead of lime mortar when the temperature falls below 40 deg. Fah.

Occasionally the pieces of stone are pretty wet. After being sure that no frost is in the pieces, they should be laid in dry cement mortar. The materials in the mortar should be screened very carefully and the mortar mixed dry. Use small wood wedges in the joints to prevent twisting strains. Fill the bed with an over-full lot of dry mortar and work the stones carefully into place. With a trowel fill the joints flush. The water seeping from the stone into the mortar will set it sufficiently.

Frost may be removed readily from brick and stone by soaking them in slightly warm water for 24 hours. The greatest bugbear of contractors is frost and frozen bits of snow in material. Sand may be warmed in a primitive fashion by putting it on plates resting on loose brick piers, a wood fire being kept going during the process underneath the sheets of steel. There are other methods in common use and which to adopt depends upon the amount of sand to be kept warm.

Ground on which foundations are placed must not be frozen. Keep water and snow out of all excavations and this can be done oftentimes only by covering the openings until ready to place the foundations. Lime and coarse salt will often reveal the presence of frozen ground.

THE Portland Cement Assn. issues pamphlets telling how to do concrete work in cold weather and every up-to-date contractor should have these pamphlets on file. In general, on a falling temperature, heat all materials when the temperature at quitting time is apt to be as low as 40 deg. Fah.

When the temperature at quitting time is apt to be below 35 deg. Fah., and the temperature is falling, the interior of all enclosures must be heated. The temperature should never be permitted to fall below 40 deg. Fah. within the enclosures.



This scene is full of winter atmosphere and the pouring of concrete is not hindered by temperature.

It is impossible by visual inspection to determine whether hard concrete is set or frozen. In case of doubt pour warm water on to it for not less than three hours with a surrounding temperature during the process of never less than 40 deg. Fah. Such treatment will soften frozen concrete. If it has no effect it is safe to assume that the concrete is set.

There are some preparations on the market which aid a great deal in preventing concrete from freezing during the setting process. They are first class insurance but should be used in addition to, not instead of, enclosures and the warming of materials and enclosures.

The greatest advance in materials for the purpose of enabling winter work to be carried on came with the invention of a very quick setting, true Portland cement. This cement should be used always for winter work. The research bureau of the National Lime Association has also developed a mortar specially adapted for winter work in which lime mortar is to be used.

Custom has made men close down work for four months when temperature and storm records show that less than one-third of the time in the worst month should really be lost, and but few days in the other months. By furnishing enclosures and making arrangements to work even on the worst days perfectly good work may be done provided the management uses common sense and the inspection is good.



Although the men were dressed for cold weather they poured thin slabs over, and thin ribs between metal forms successfully. Common sense, care and good inspection made this possible.

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Charles H. De La Cour

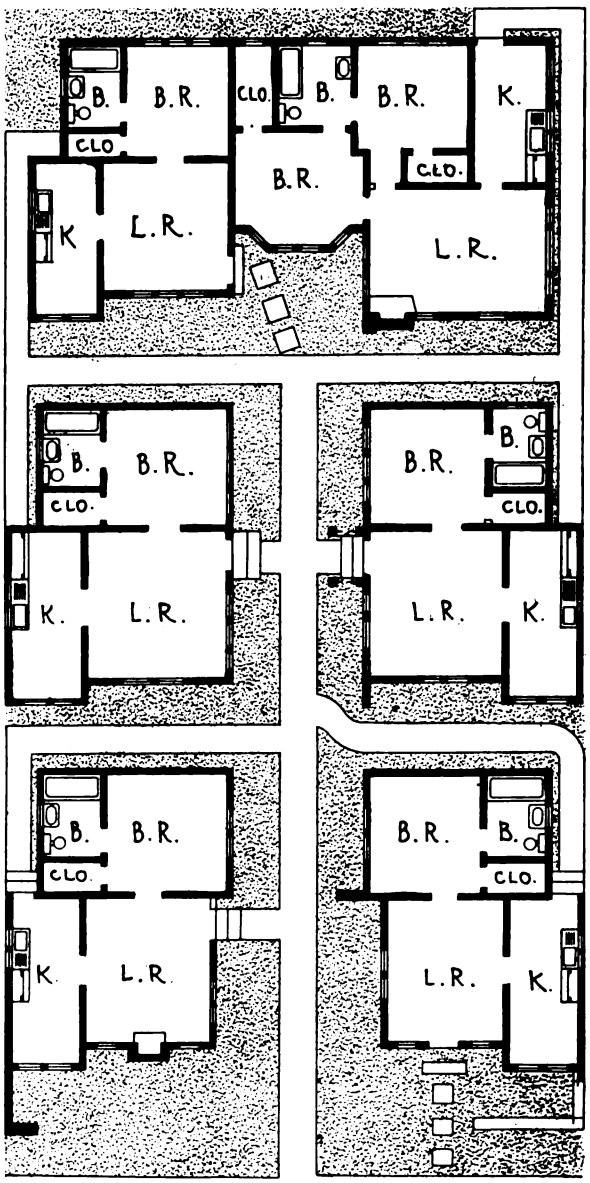
IMAGINATION is having its innings in the building field today. Some call it "Jazz," implying artificiality. Remember though, the first skyscraper was termed a "jazzy" structure. Here is another phase of pioneering in building lines—the story of Charles H. De La Cour and his Bungalow Courts of San Diego.

SOME men achieve success by following established lines; by doing the same things and doing them a little more competently and a little more shrewdly than their brothers.

Others branch out and invade new fields. To them goes the greatest tribute and rightfully, too, for they are the pioneers.

In the building field as in other lines of enterprise these same principles hold true. Our more conservative builders—important to society for their appreciation of good building practice—hew closely to the principles of their forbears. But our younger men, and many of the older ones, too, prefer to follow out their own dictates, adopting little of the past save the fundamentals of solid structural work. These men find themselves in new fields and when the ideas they upheld are acclaimed successful, then they realize on the fruits of their enterprise—on their "radicalism."

Charles H. De La Cour, whose work is pictured here, is such a builder. In years he is not old. And for that matter there are thousands in the building field whose experience minimizes his by contrast. Yet Mr. De La Cour sensed the trend in home design that was reflected in his



town, San Diego, California. Tourists came there for rest and relaxation. They came from the conservative Middle West and still more conservative East. It was their holiday time and for the moment Eastern customs of home design had faded into the horizon of a fretful, work-a-day world.

THIS festive spirit evinced itself so poignantly to Southern California builders that they set about finding just the design that would satisfy this tourist-craving for the "different" and still represent a solid investment to the property owners. The Bungalow Court resulted and here we see it in its purest, most untarnished form.

Do not wave it aside as a novel but impractical idea conceived in the minds of too ambitious architects and builders. It is as practical an arrangement of small apartments as has so far been developed to fit the conditions of Southern California.

Look at the plan and you will see why visitors to San Diego compete to rent suites in this little dwelling group. Most of the apartments have a living room, a bedroom, a kitchen and a bath. And room to spare for units of so miniature proportions. Then there is the long court in front.

It is better seen now why this man was not too radical, was not going too far afield, in building this type of transient home. He and his building associates realized the nature of the housing demand in his locality and they were wide awake enough to meet it. Now there is a clamour for the Bungalow Court and its staunchest supporters are reaping their reward in contract volume. Every locality in this country is ready for some new idea, some improvement that will better living conditions. The results may not meet with immediate popularity, but when they are accepted, paying jobs and added profits will be the rewards.

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Something Unique

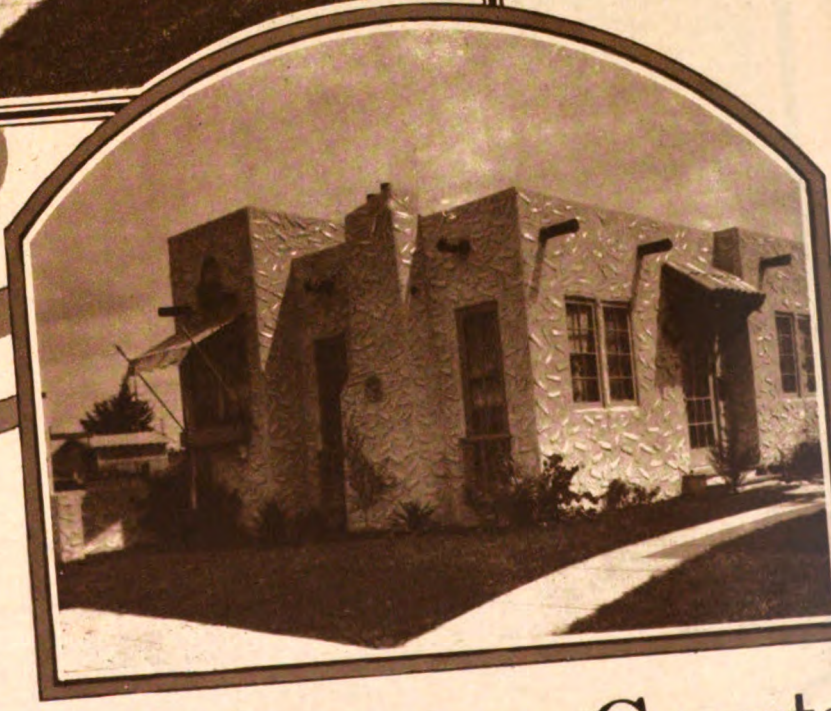






NEED there be more than a word or two said in commendation of this unique bungalow court? It is strictly Californian and reflects, as do so many of their charming homes, the holiday spirit of the visiting population.

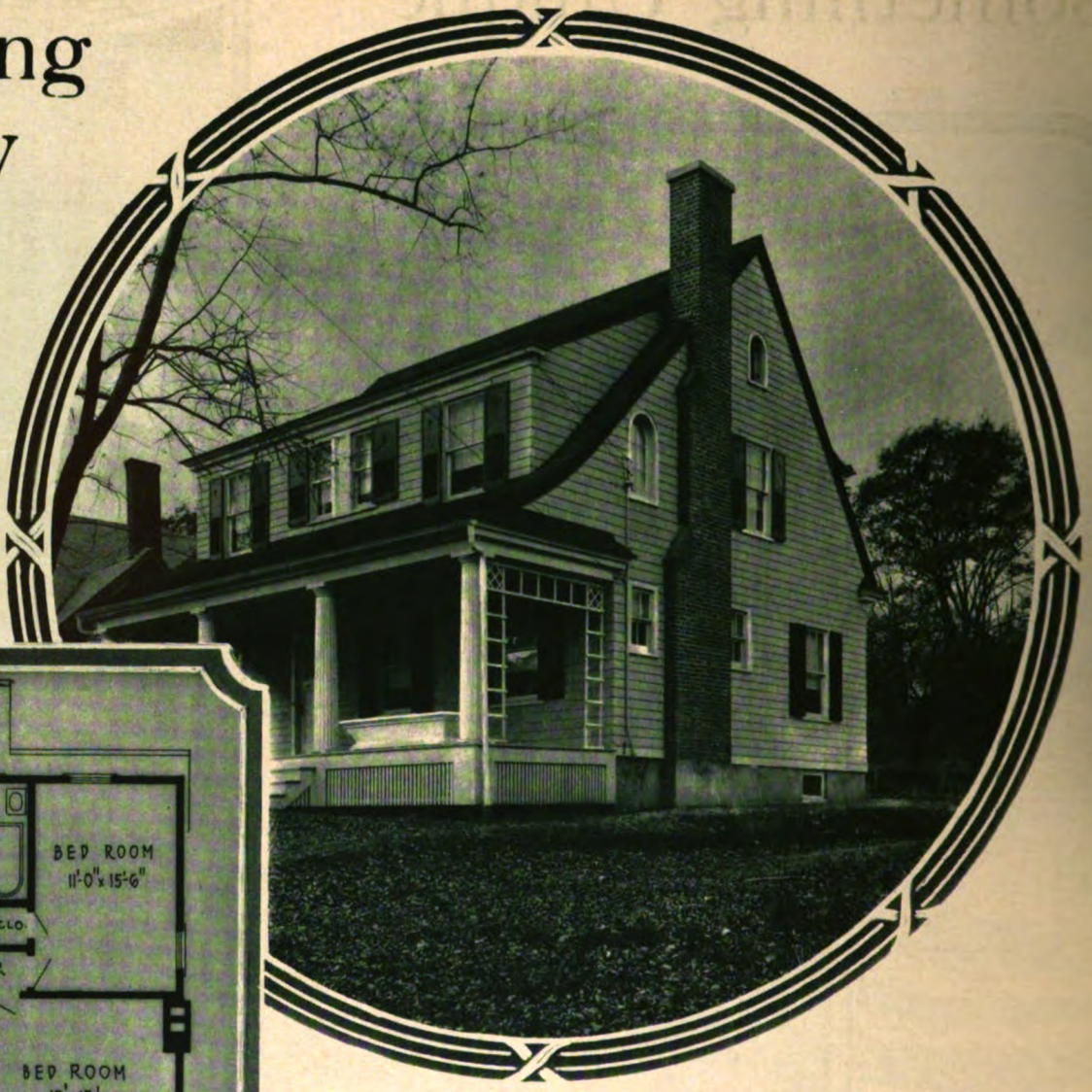


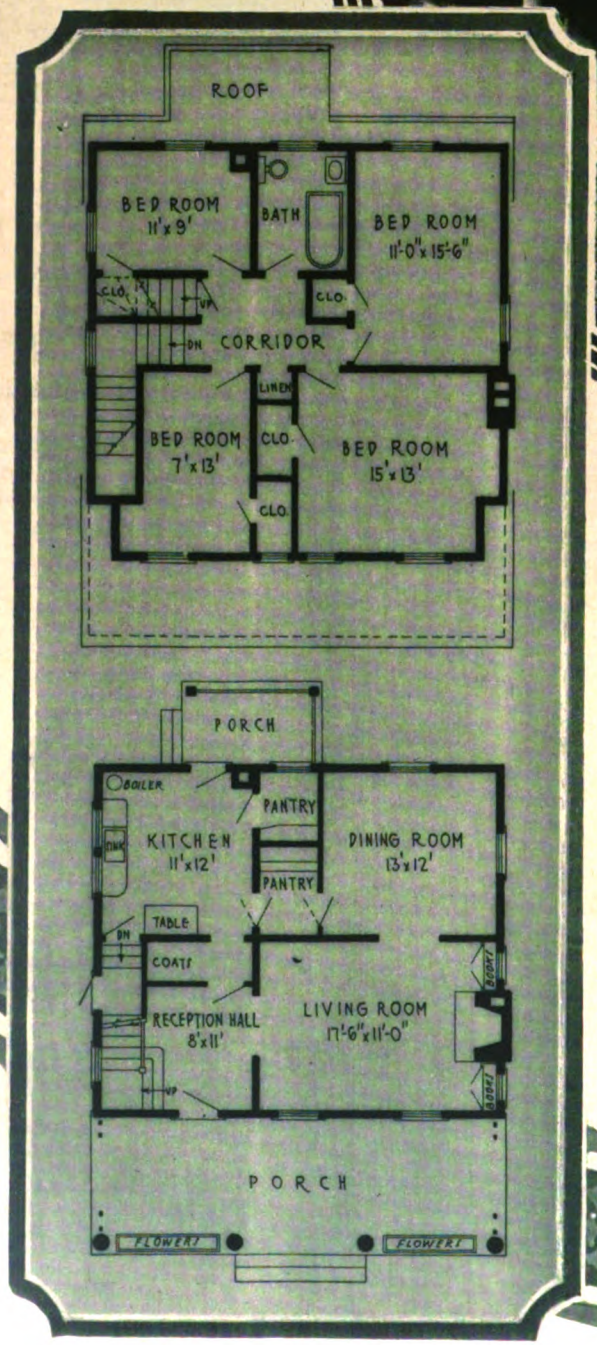


In Bungalow Courts

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Matching Dignity With Grace



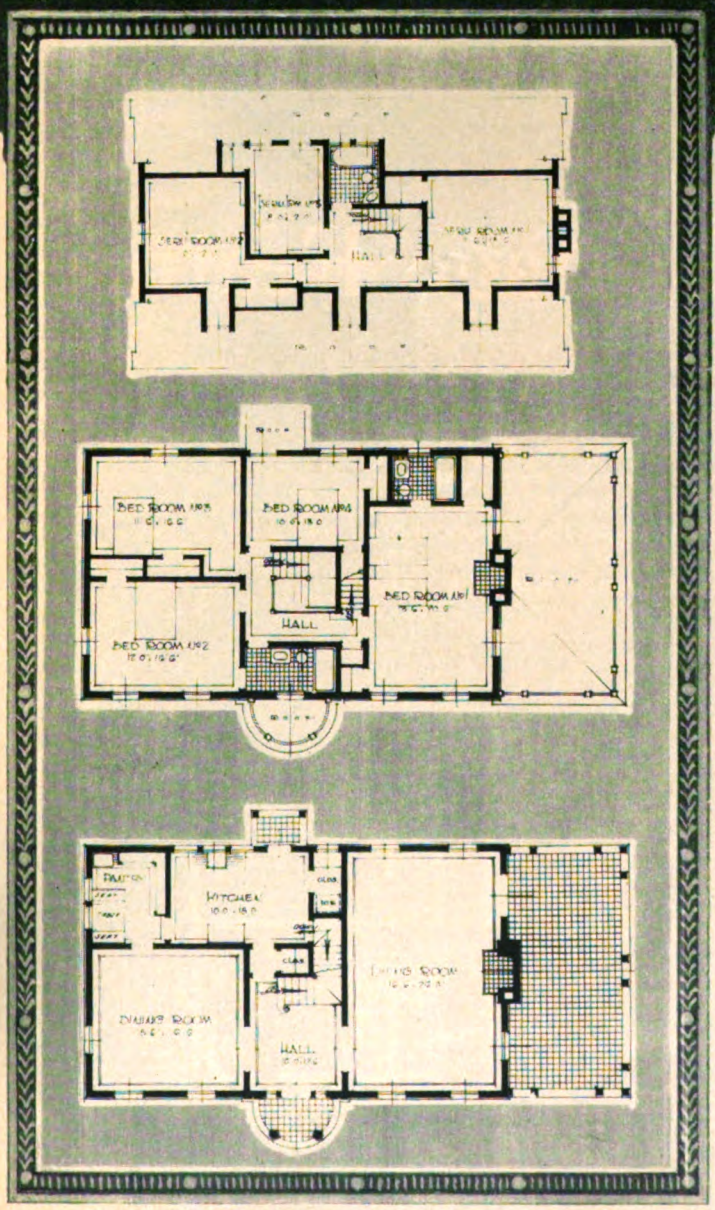


ONE finds in the Dutch Colonial a refreshing air of tradition coupled with modern demand for convenience and comfort. Here is shown just how such design may be adapted to the small house. The home is found in Albany, N. Y., Thomas L. Gleason, architect.



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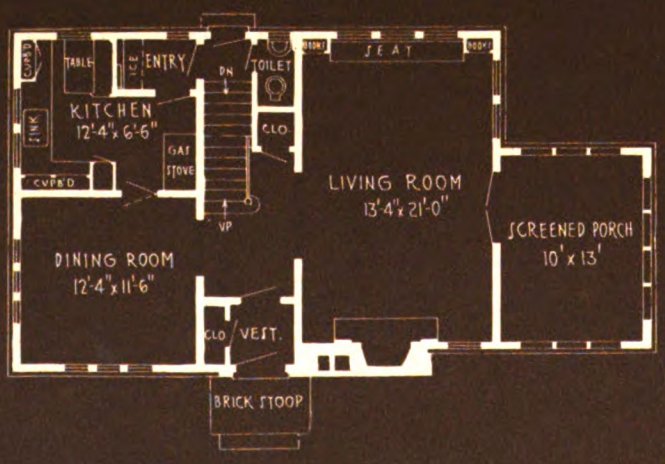
The New England Colonial Charm Shows Here

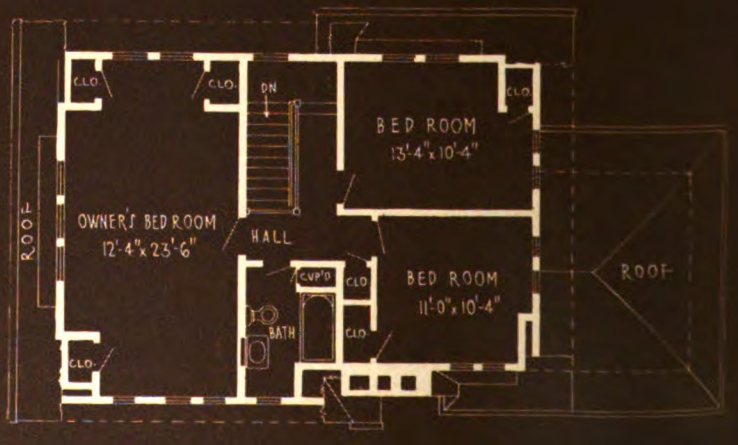
IN every charming detail this residence reflects New England Colonial Ancestry. Tidy dormers, wide porch, and authentic entrance—all these are accurately interpreted in the manner that the period dictates. Particularly in the inviting front entrance does this school of design demand simplicity and grace. Ornamentation may be used, it is true, but always with avoidance of pretentious finery. A further reflection of our forefathers' recognition of all that goes to make the real home is apparent within. As one passes through the distinguished entrance, one enters a large hall from which there is access on one side to living room and on the other to dining room. The second floor contains four comfortable bedrooms and two baths; the next floor has been finished off for servants' quarters. W. E. Knowlton of Tenafly, N. J. is the owner and R. C. Hunter and Bros. of New York the architects.

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With English Cottage Features

DISCOVERED in this rural setting the English Cottage is at its best. First, of course, one's attention turns to the rugged chimney treated in fine proportion with the front gable. The balance of these two, more than often, determines the success of the design. The architects are Vorse, Kraetsch and Kraetsch, Des Moines, Iowa.





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Clutches and Drives Above the Dirt Line

The use of chain drives permits the location of the main drive shaft above the dirt line. No sand, grit, cement or concrete can work into its bearings to cause friction, excessive wear and breakage. This is just another reason why Rex Mixers last so long and still deliver big yardages even after years of the roughest usage. Incidentally, the use of chain drives permits the location of shafts and units where they should be and not where they have to be to permit gearing. This means a more compact machine. Checking the coupon below will bring you the Rex Mixer Catalog showing the other features of this fast one-bag model that is helping contractors all over the country to bigger daily yardages. Or if you are interested in a half-bag tilter, check the coupon for the Tilter Catalog.

REX MIXERS

CHAIN BELT COMPANY

723 Park Street — *Milwaukee, Wisconsin*

CHAIN BELT COMPANY
723 Park Street, Milwaukee, Wisconsin

Please send me—The REX Tilter Catalog ☐
The REX Mixer Catalog ☐

Name.....

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City..... State.....

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Here Is the Forecast of

Probable 1926 Construction

Prepared by Building Age and National Builder

WE have pointed out in the past, there is no such thing as absolutely accurate building figures for a year in advance. For who can tell before the event exactly what will be built in his village, town or city in the year to follow?

Thus every forecast must be regarded purely as an estimate, which will approximate the later established facts no closer than its premise is sound and its deductions from carefully ascertained data are made intelligently and accurately.

For 1924 we predicted about $4,500,000,000 worth of construction. The amount recorded was $5,000,000,000. For 1925 we predicted $5,000,000,000 and no other authority we know of predicted more than $4,500,000,000. The $5,000,000,000 mark has already been reached in September, and 1925 still has three months to go! Our 1922 and 1923 forecasts were accurate in same ratio. We have perhaps been fortunate not only in being most accurate, but in being in fact closely accurate and—in this we take much pride—in erring only on the side of conservatism.

In our October issue, we presented a detailed, itemized report of the building shortage that still exists, based on data secured from the various Chambers of Commerce throughout the United States. Much additional information was furnished us by the Chambers of Commerce touching on next year's building. Our forecast of Probable 1926 Construction which follows is based on this data, supplemented by careful study of reports from commercial organizations, building departments, and U. S. Census figures and reports. In fact every available source of information was examined as a check on our figures.

The "normal" annual building requirement of the United States has for some years been put at $3,000,000,000. By "normal" has been meant the new construction needed each year for increasing population. It is obvious that this cannot be a

Normal Annual Volume of Building for Growth of Population

TYPE OF BUILDING	300 Cities Over 25,000 Population		2,600 Towns and Cities 2,500 to 25,000 Population		48,713 Rural Towns Below 2,500 Population	
	Number	Value	Number	Value	Number	Value
Residences:						
1-family, under $5,000	45,315	$181,260,000	40,748	$162,992,000	63,854	$255,316,000
1-family, $5,000 to $10,000	30,300	242,400,000	12,422	99,376,000	65,295	391,770,000
1-family, over $10,000	8,400	210,000,000	2,341	58,525,000	1,966	24,575,000
2-family	16,800	168,000,000	3,047	30,470,000	....	.....
Apartments	5,040	378,000,000	1,388	53,854,000	....	.....
Total, Residential	105,855	$1,179,660,000	59,946	$405,217,000	131,115	$671,661,000
Community Buildings:						
Churches	1,620	$163,620,000	725	$35,525,000	1,258	$12,580,000
Schools	2,120	351,920,000	950	65,550,000	1,651	41,274,000
Hospitals	50	11,050,000	24	1,320,000	42	1,050,000
Theatres	197	21,473,000	89	5,251,000	153	1,530,000
Garages—Public	480	9,600,000	216	4,104,000	374	3,740,000
Garages—Private	49,500	19,305,000	22,250	10,613,000	38,563	7,713,000
Banks	275	99,275,000	124	9,424,000	215	2,150,000
Hotels	177	64,251,000	80	11,280,000	138	3,450,000
Stores	7,050	77,550,000	3,170	34,870,000	5,509	27,545,000
Factories	2,210	221,000,000	995	45,770,000	1,725	17,250,000
Office Buildings	85	17,255,000	38	3,306,000	....	.....
Public Buildings	560	148,960,000	251	15,060,000	437	10,925,000
Miscellaneous	420	123,060,000	189	4,158,000	328	6,560,000
Total, Community	64,744	$1,328,319,000	29,101	$246,231,000	50,393	$135,767,000
Total, Combined	170,599	$2,507,979,000	89,047	$651,448,000	181,508	$807,428,000

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The Probable 1926 Building Construction

	Residential		Community		Total Combined	
	Number	Value	Number	Value	Number	Value
In Cities Over 25,000 Population	105,855	$1,179,660,000	64,744	$1,328,319,000	170,599	$2,507,979,000
In Cities and Towns from 2,500 to 25,000 Population.....	59,946	405,217,000	29,101	246,231,000	89,047	651,448,000
Rural	131,115	671,661,000	50,393	135,767,000	181,508	807,428,000
Total for New Normal Needs	296,916*	$2,256,538,000	144,238	$1,710,317,000	441,154	$3,966,855,000
Repairs and Remodeling**.....						$396,685,000
Farm Buildings†.....					907,500	272,250,000
Probable Shortage Overcome, Fire Loss, Obsolescence, etc.						976,037,000
TOTAL PROBABLE 1926 CONSTRUCTION						$5,611,827,000

***Figured as 10% of new construction Building Department figures.*
†Based only on obsolescence—50 year life to existing structures.
**Equalling homes for 374,615 families.*

fixed, stationary amount for the population increase in numbers has been greater each year, and then too the money value for their requirements will vary with changing standards of living and with fluctuations in the cost of construction. We soon found in our calculations that it was necessary to discard the generally accepted figure for normal requirements, and established a new figure, based on present-day conditions.

OUR estimate for 1926 depends on new normal requirements for increasing 1926 population, plus alterations and repairs due to decay, fire or other causes, plus so much of the existing shortage as might reasonably be expected to be overcome, as indicated by our research through the Chambers of Commerce.

As was pointed out in our October number, the annual increase in population must not only be accommodated in homes, but there must also be a corresponding increase in all the various other structures, and we stated that in order better to visualize the yearly building needs of the United States, due to increasing population, we should think of a city whose population is about the same as the present yearly increase in population—a city the size of Philadelphia, with all its varied kinds of buildings and industries—Philadelphia, which is the third largest city in the United States, with a population of 1,873,070.

The estimated increase in population in the United States for 1926 will be 1,873,076, or 374,615 families, figured on the present-day average of five to a family.

For each family a home is required. This home may be either a single family house or a single apartment in a multi-family house. In addition, all the various other structures, such as stores, schools, churches, theatres, hospitals and other buildings of a community nature which people who live in communities must have, will have to be provided.

By a careful analysis of the distribution of existing population in various type homes, taking into consideration the drift of population to certain types of communities and dwellings, we have carefully allocated this new population in the different groups of communities and types of houses.

WE have also carefully estimated the number of other structures to population, and we have allocated these various kinds of buildings to the increase of population according to large cities, small cities and towns, and rural districts.

The number of buildings in each type is multiplied by the average cost of each, as presented in our October issue, to obtain the money value.

For the 374,615 families comprising the 1926 increased population, we find need for 296,916 residential buildings and for 144,238 other structures. This makes a total of 441,154 buildings of various kinds needed annually for our increase in population. These buildings, both residential and non-residential or "community" as we have here designated them, have a total money value of $3,966,855,000, which figure we regard the new "normal."

TO this normal we add, first, repairs and remodelling made necessary by decay, destruction by fire, and other causes; chief among which would be improvement desired because of our ever mounting standard of living. Several hundred thousands reports have been examined; they show that remodelling and repairing total 10% in value as compared with the new construction for any particular period. We therefore add for repairs and remodelling 10% of the total, or $396,685,000.

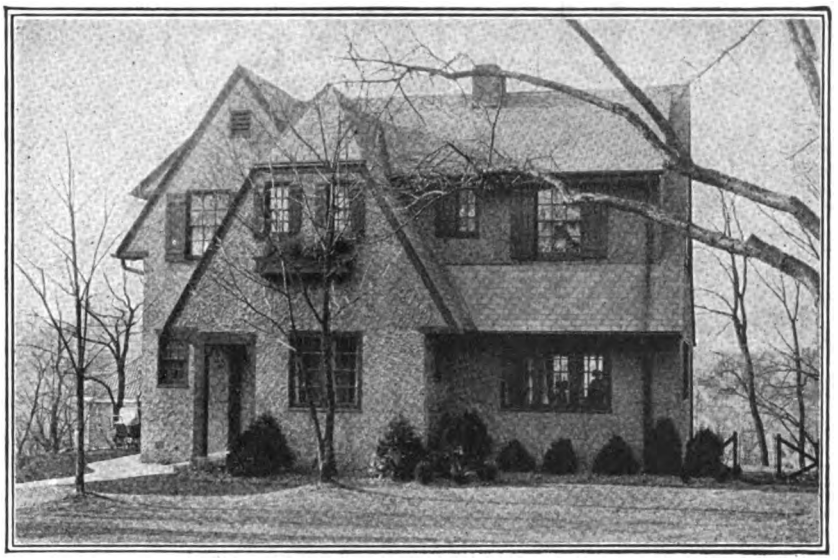
Farm buildings are not included in our tabulation of normal requirements. While it is true that farms are declining in number, they are increasing in size. The reason perhaps is that farming is being placed more on a business basis rather than the old idea that a farmer was going to make just a living for himself. The farmer is becoming, apparently, more and more a manufacturer of food products with need for larger and more efficient farm buildings.

In the circumstances, it has seemed more reasonable to base our estimate of farm building construction not so much on increasing population as on replacements of obsolete buildings. We believe that to figure 50 years as the average life of existing farm structures is quite conservative.

On this basis, there would be an

(*Continued on page* 118)

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Signed

Victor H. Englehard

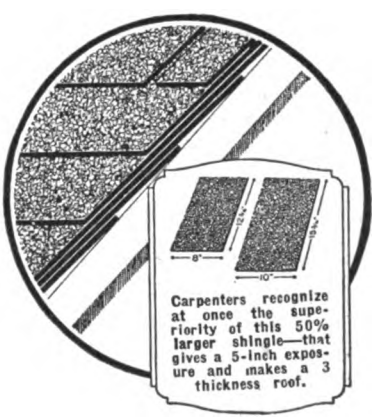
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Reducing Heat Waste
at Vital Construction Points

By Charles L. Hubbard

IN the two preceding articles of this series on the builder's relation to the heating system, the question of heat waste caused by old-fashioned construction methods and of heat losses through windows, doors, attics, etc., was discussed. This, the third and final article treats of heat losses and inleakage of cold air through walls and floors.

It is generally understood that enclosed air spaces form the most effective non-conductor of heat possible, and different types of building construction make use of this in various ways, the most common being the employment of hollow walls.

Now an air space may be a non-conductor or a very active conductor of heat, according to conditions which are apparently not so well understood as they should be. To form an effective non-conductor the air spaces must be very small and so separated as to reduce any circulation or air movement to a minimum; hence the value for this purpose of eel grass quilting, mineral wool, hair felt, cork in various

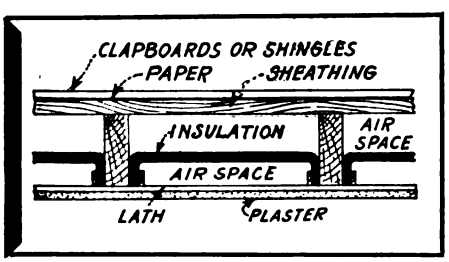
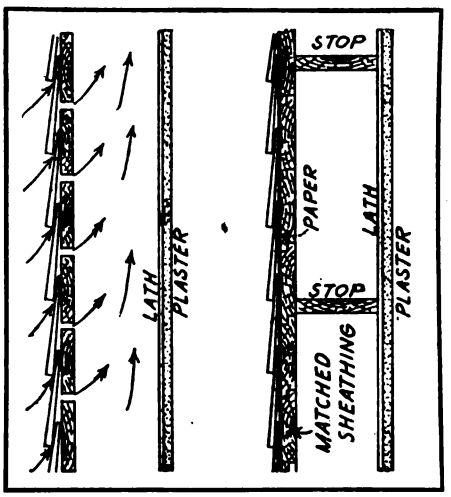


Fig. 3. An effective method of insulating, using flanged panels of a flax fibre board secured between studding

forms, etc. Short of actual contact the smaller the spaces the greater the reduction in heat transmission.

Back-plastering the walls of a house between the studding may prevent the inleakage of cold air to a considerable extent, but if these spaces communicate with the cellar at the bottom and the attic at the top, they form active flues for carrying away the heat which passes into them through leakage and transmission from the outside of the building.

Air spaces in brick walls, to have any special value in the way of insulation, must be stopped off frequently by horizontal divisions. Unless this is done and especially



Figs. 1 and 2. In walls of cheap wooden construction, cracks are opened by shrinkage and warpage, permitting ready entrance of cold air, as shown in Fig. 1. Fig. 2 shows an improved method of construction to prevent leakage, etc.

if there is communication with the attic, a flue effect will be produced the same as in the case previously described, and the heat loss may be as much, or even greater in some cases, than with a solid wall.

This principle also applies to hollow tile construction, and the blocks should always be laid so that the air spaces extend horizontally instead of vertically.

A wall of cheap wooden construction is shown in Fig. 1 which illustrates how, after a short time, cracks are opened up by shrinkage and warping so that cold air finds a ready entrance to the spaces between the studding. Houses of this general grade of construction are usually built without stops at either the top or bottom of the studding spaces, so that there is a continuous flow of cold outside air in direct contact with the thin inner lining of lath and plaster.

Under these conditions, in still air or light winds, the effect is much the same as though the outer section of the wall (clapboards and sheathing) was omitted. In case of high winds it is of course some protection as it reduces the air velocity over the inner section of lath and plaster.

Fig. 2 shows a greatly improved method of constructing a wall of this general form. Here, sheathing of either the tongue and groove or half-lap type is used, which gives a much tighter joint than when the boards are simply butted on the edges. While a joint of the latter kind may be fairly close when the boards are first laid, it will not remain so, and cracks of considerable size will soon open up from shrinkage.

Even if covered with building paper the leakage will be considerably more than with the matched joint.

In Fig. 2, not only has the outer layer of the wall been made tight against leakage, but the space between the studs has been stopped

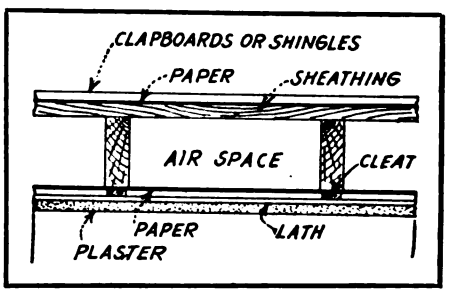


Fig. 4. Same effect as in Fig. 3, secured by heavy building paper nailed to the inner side of studs.

off horizontally so as to confine the air in smaller spaces and also eliminate or greatly reduce the flue effect previously spoken of.

From a practical standpoint, there is not much difference between the tongue-and-groove and ship-lap joints. The latter is somewhat cheaper in first cost and easier to lay, but more likely to be affected by warpage. However, when of good grade, well laid, and covered with first-class building paper, it should give satisfactory results.

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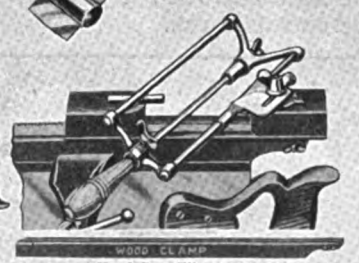

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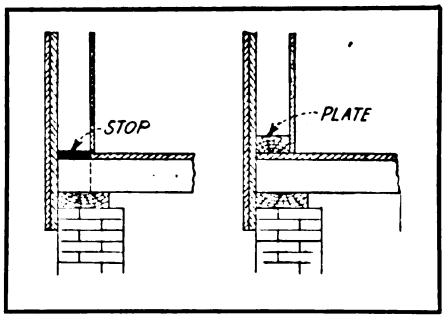
While building paper is effective in reducing air leakage, it has but little value as a non-conductor of heat through transmission. In order to reduce heat loss in both of these ways, "quilting" and "fibre board" of various kinds are used. Of the first, those made up of eel grass, and of felted hair, between sheets of protection paper are the most common. Cork in sheets of suitable thickness is also used for the same purpose.

Insulating material of this kind is used in place of building paper and is applied to the sheathing beneath the clapboards or shingles, and may be used to advantage upon both the walls and roof.

Tests show that with eel grass quilting the heat loss from these sources may be reduced from 25 to 35 per cent. Other forms of insulation, which may take the place of the usual sheathing of the outside walls, are made of cane fibre, flax fibre, asbestos and cement or plaster of Paris, etc., and are sold under various trade names. They may also be used on inside walls and under stucco finish, certain forms being made especially for the latter purpose.

So much for the outer wall covering; now, let us see what can be done towards preventing an undue flow of heat through the remaining portion, which is made up of the air space between the studs and the usual lath and plaster lining.

The air space may be made to act as an advantage or a disadvantage according to the way it is enclosed. The temperature of the room is supposed to be maintained at 70 degrees, and the temperature of the air space will be somewhere between this and the outer air, according to the tightness and construction of the outside finish.



Figs. 6 and 7. Two methods of closing flue-like openings shown in Fig. 5. Fig. 6 shows stops between studs at first floor level; Fig. 7, studs set upon plates laid broadside upon floor

The one-half inch of lath and plaster on the inside is one of the weak points in the ordinary type of construction, as heat and air both pass through it easily. That plaster is a poor insulator is illustrated by almost any top floor ceiling, where the upper side of the joists are not covered with a tight floor. Such ceilings show alternating light and dark lines, the latter being the spaces between the laths which have become filled with dust filtered from the air in its passage from the rooms below to the attic space above.

Paper of suitable weight and closeness of texture is very effective in cutting off air leakage and should

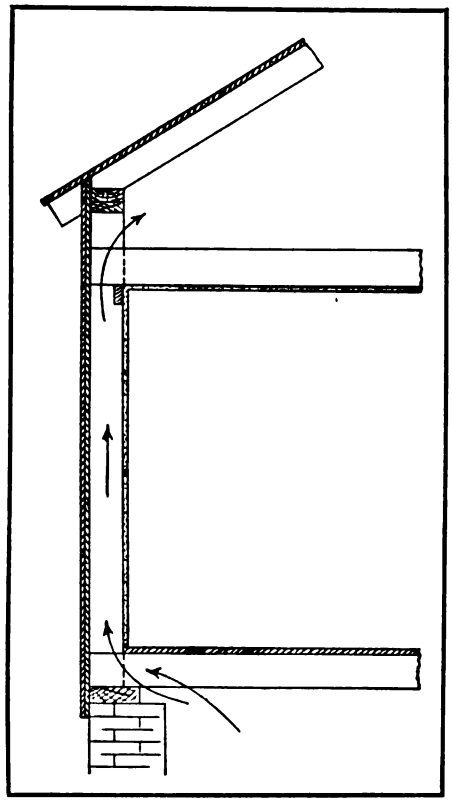
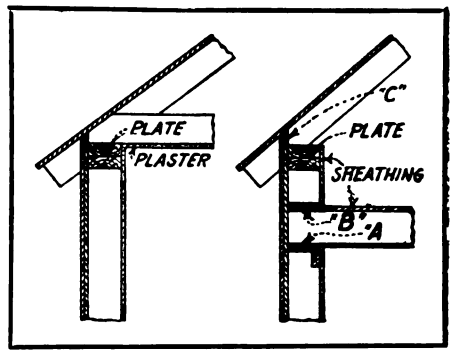


Fig. 5. Flues formed by studding make a communication between floor and attic, producing direct heat losses. Such flues should be stopped off at both top and bottom

be used as a part of wall and floor or ceiling construction, either as a separate layer or in combination with wall board or plaster.

The older method of insulating the walls was that of "back-plastering," which consisted of a layer of lath and plaster between the sheets just inside the outer sheathing. While this was an added protection against heat loss, to a certain extent, it was open to the flue and leakage effect above mentioned in connection



Figs. 8 and 9. At attic level, when joists are laid upon rafter plates, there will be air passages left because inside finish extends up to and includes plate. If attic is not floored over, stop may be placed at "B" (Fig. 9).

with this form of construction. On the whole it is not too effective.

Fig. 3 shows a more effective method of carrying out this principle, which substitutes flanged panels of a flax fibre board secured between the studding as shown. This can be made still more effective by adding stops which divide the air spaces horizontally every 2 or 3 feet. In Fig. 4, something of the same effect is secured by heavy building paper nailed to the inside of the studs, over which are placed cleats for providing space between the paper and laths for binding the plaster.

Care should be taken in applying the paper to see that it is satisfactorily lapped and that the slack is uniform on all overlapping edges. When laying the paper the upper sheets should be put on first, so as to permit the successive lower layers to overlap the ones above. This will retard the passage of air through the joints from the room to the stud space and will have a tendency to cut off air circulation and produce a dead air space between the paper and the plaster.

With the construction shown in Fig. 4, the wall will be thickened slightly owing to the strips nailed to the inner edges of the studs, and this must be provided for in making up the door and window casings.

Mention has already been made in a previous article of the saving in heat which can be made by flooring over the attic in buildings where this has been omitted.

The roof of a house is usually constructed with the sole idea of keeping out the rain, ignoring entirely its equally important office of keeping in the warm air. A heated building acts as a chimney flue and

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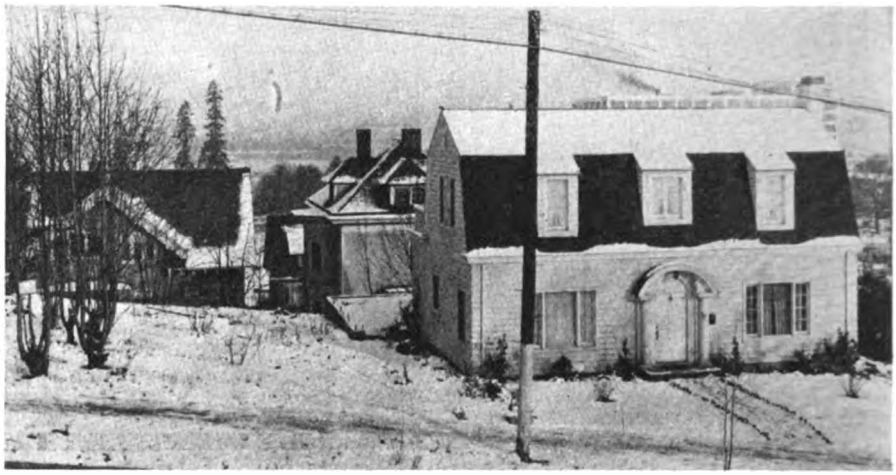
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he has seen the carpet rising a couple of inches or more from the floor and then slowly falling back, due entirely to an open window in the room below, in combination with a fairly high wind outside. The slight pressure produced by this condition was sufficient to force an air current through a plastered ceiling and double wooden floor, of sufficient velocity to lift the carpet as above noted.

Professor Woodbridge in one of his articles mentions the difficulty experienced in warming a certain dwelling house during a period of near-zero weather, although the wind was light and the roof covered with a layer of light snow. A subsequent rise in temperature, accompanied by rain, and another fall in temperature to zero, resulted in a coating of ice being formed over the entire roof which sealed all cracks against air leakage. Under this condition no difficulty was experienced in keeping perfectly comfortable and with a surprisingly small amount of fuel.

This illustrates quite plainly that stoppage of heat currents is signally important. Even the great difference in temperature inside and out was overcome by the fact that cracks were sealed and drafts effectually stopped.

The most effective place to stop the upward leakage of warm air is at the attic floor, where it may easily be done by laying a tight floor over building paper. In case it is desired to maintain a comfortable temperature in the attic for any special reason, the roof may be made tight by the use of building paper and insulating quilting, applied beneath the shingles in the case of new buildings, and on the under side of the roof boarding between the rafters in those already constructed.



The snow on roof of house in foreground has not melted as on surrounding roofs, showing that this house, insulated with heat-insulating "quilt," is retaining its heat instead of allowing it to leak out through the roof. (Courtesy of Samuel Cabot, Inc., Boston, Mass.)

Probable 1926 Construction

Continued from page 112

annual need for 907,500 different farm buildings, which at an average price of $300 amounts to $272,250,000. This figure is to be added to the others for probable 1926 construction.

Then we have the annual fire loss. According to figures secured from the Board of Fire Underwriters, the annual fire loss is $548,000,000, of which approximately one-third, or $182,666,000 are building losses. This item added to the amount of the building shortage which should be made up in 1926, as developed through our Chambers of Commerce research, accounts for the $976,037,000 in our total, and along with the others already mentioned give us a grand total of $5,611,827,000 as the probable 1926 Construction.

Our figures disclose a normal amount of building annually which, if undertaken, will mean splendid business for the building industry of and in itself. But to this normal requirement we still have shortage to overcome, and an ever higher standard of living, which is causing us to replace structures long before the period of obsolescence. Indeed, we are replacing them so rapidly, because of our desire for better surroundings, that the prediction is freely made that in the next decade or two practically all of our bigger cities and towns will be almost entirely rebuilt. It would seem that the building industry may for many years to come reasonably anticipate better than normal business.

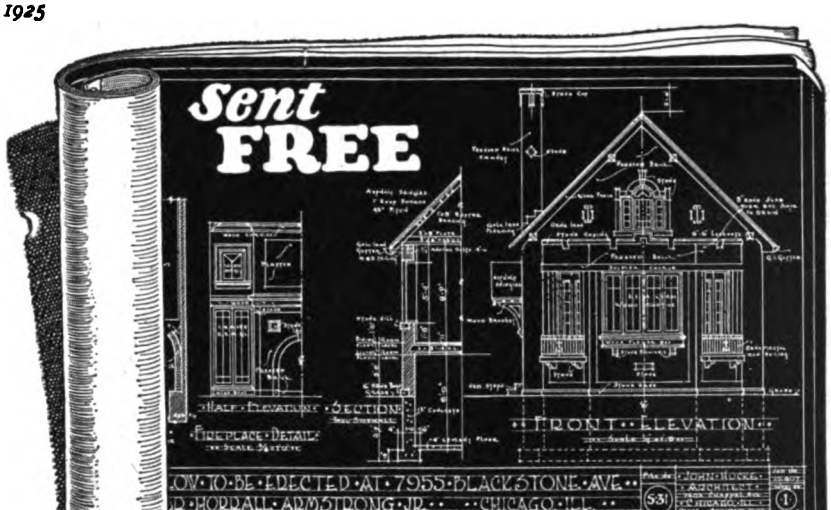
From some sections come reports that building material cannot be obtained for the reason that the railroads have not sufficient facilities to carry the amount of material offered for shipment. There may be certain other limitations, such as a shortage of skilled labor, but the temper of the American people is such that when a need exists, that need is in some way satisfied.

For example, when figures for 1924 building were finally compiled, many thought that we should never witness another such building year, and many asserted most positively that we could not have sufficient mechanics to do a greater amount of building in one year. But 1925 thus far including figures for September, compared with the corresponding period of 1924, is nearly 30% better and, in fact, 1925 with three months still to go, has already surpassed 1924!

At no period in the history of the United States has the economic condition of our country been so sound, and with the great majority of our population gainfully employed, we are unmistakably in an era of great prosperity. Money for building in almost any amount is obtainable at very favorable rates, and there is nothing on the horizon as we go to press to indicate any particular difficulty in any direction.

From all the circumstances, it appears sane, safe and conservative to predict that 1926 building construction will closely approximate 1925. There should be no appreciable difference and, as far as any condition that is now present is concerned 1926 may as reasonably be expected to be over as under 1925 figures.

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Mail the coupon for Blue Print Plans and 24-page Book: "How to Read Blue Prints"



Blue Prints are interesting to every man in the building trades. And more! They are the key to every builder's success. For until you can read and understand blue prints you will probably have to be satisfied with only a scale wage. The man who can read blue prints can become foreman, superintendent, or have a business of his own. To help every man who really wants to make money and get ahead in building, Chicago Technical School for Builders offers absolutely *free* these Blue Print Plans and a 24-page book "How to Read Blue Prints."

You Can Become a Building Expert

Plan Reading. Every man who has got very far ahead in any building trade can read blue prints. No man can expect to be a first rate foreman or superintendent until he knows what every line on a plan means and how to lay out and direct work from the architect's plans. By the Chicago Tech. Method you quickly learn to read any plan as easily as you read these words.

Estimating. Of course a man who wants to be a contractor or to hold a big job in a contracting organization must know how to figure costs of labor, material, and everything else that goes into any kind of building. The Chicago Tech. Course covers every detail of this important branch —shows you just how it is done from actual blue print plans.

Superintending. How to hire and direct men, how to keep track of every detail of construction as it goes on, how to get the work done in the least time at the lowest cost is also fully covered in the Chicago Tech. Builders' Course.

Also special courses in Architectural Drafting for builders, taught by practical men. These explained in Special Catalog "D" sent on request.

What this book is

This book is written by an expert . . . a practical builder who knows the game from top to bottom. It tells how different materials are shown on blue prints, how "sections" and "elevations" are shown on plans, how to lay out a building from a plan, how to take off quantities . . . and all the other interesting and important facts regarding blue prints. The book is as easy to read as your newspaper . . . written in plain, everyday English that everyone can understand. "How to Read Blue Prints" will be mighty helpful to you. Aside from the real help it gives you it will show you how clear and plain and easy the Chicago Technical Builders Course is . . . how quickly you can learn in your spare time . . at home . . . to become a building expert.

Learn at Home to make more money

For 20 years the Chicago Tech. School for Builders has been training men to advance and make more money in building. Hundreds of successful men, superintendents and contractors, owe their success to their Chicago Tech. training. We train you by mail . . . in your spare time . . . at home.

Send the Coupon . . . Now

With the free Blue Print Plans and our book "How to Read Blue Prints" we will send you another book . . also sent absolutely *free*. It tells all about the Chicago Tech. Builders course . . . directed by practical building experts . . . tells what others say this course has done for them . . . shows pictures and gives all the facts about our method of training men . . . quickly . . . for the jobs that pay most money. This may be your golden opportunity. It costs you nothing to find out all about it. So send the coupon in *now* . . . for the *free* plans and books.

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Mail the Coupon—NOW

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Dept. 1138 , Chicago Tech. Bldg., 118 East 26th St., Chicago, Ill.

Please send me your Free Books and Blue Prints for men in the Building Trades. Send postpaid to my address below.

[Write or print name plainly]

Name.....

Address.....

City..... State.....

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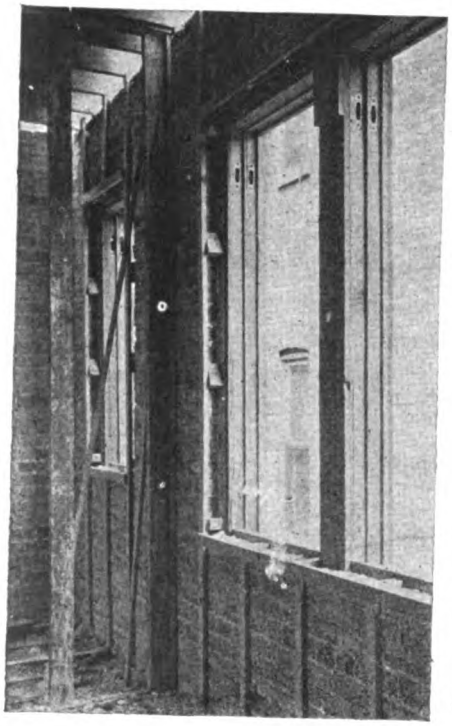
On the Job with the Construction Editor

A CENTURY ago, the man who built better than his neighbor found success awaiting him. Today, good building—plus economical production—are the keynotes. Here are a few means of effecting the latter. Other builders pass them on to you. Sincerely,

Roy H. Simpson.

Furring Around a Window Opening

HERE is a method for furring around window openings which, though quite commonly used, the writer has not seen in certain parts of the country. He



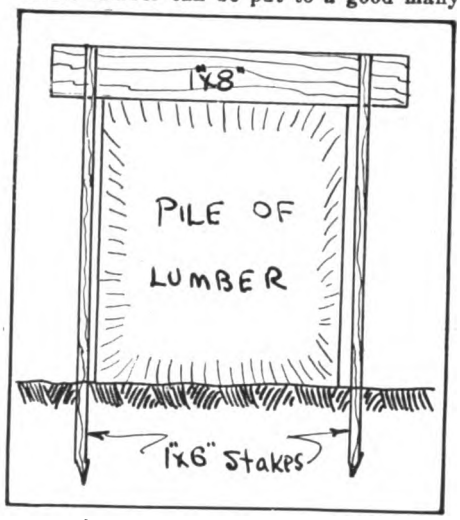
therefore presents it with the knowledge that though it may be "old stuff" to some of us, it is nevertheless new to others.

In this manner of framing odd bits of waste blocks are used. As shown in the illustration, these blocks are nailed directly to the frame and the furring strip nailed to the blocks. The blocks are cut to such a size as will keep them a distance away from the wall equal to the space between the inside face of the window frame and the inside face of the wall.

To Prevent Theft of Lumber

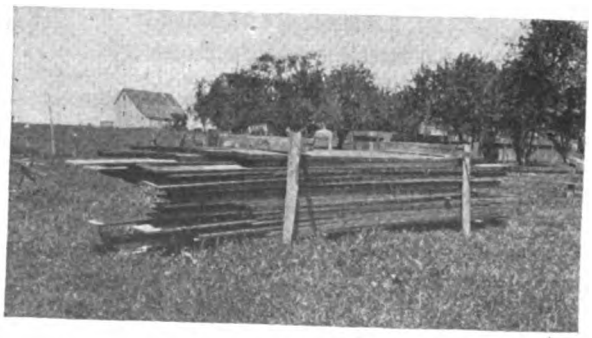
IT IS a sad but nevertheless true fact that not everyone in this world is honest. Builders, as well as many other kinds of business men have the thief to cope with. There seems to be a great temptation, especially among small boys, to steal materials from building jobs. On large operations it is possible and profitable to hire a watchman, but on small jobs this does not pay, and it is the small contractor who most often has to suffer losses due to thefts of materials.

One of the materials most frequently stolen is lumber. This is probably because lumber can be put to a good many



uses whereas other materials cannot. In these days of high prices, the loss of a few joists or several pieces of flooring, if repeated, soon mount up into a goodly sum.

In the illustration shown here is a method for discouraging thefts of this kind. It consists of nailing a cross-piece to two stakes driven into the ground beside the pile of lumber. While it would be easy to break this cross-piece off and steal the lumber so protected, nevertheless, this simple practice will discourage petty thieves who would not hesitate to pick up a few pieces if they were lying around loose.



A Steel Construction Kink

STEEL construction, as applied to the average size building carries along with it many problems for the designer and builder. It is very easy to say "Let's throw in a steel beam," but when



the steel comes out on the job there may be a little trouble setting it in place, so that all things fit as they should.

Wherever steel is used there should never be any doubt about how it is to go in. All steel details should be carefully planned in the office, for steel is not an easily worked material. Sawing steel on the job in order to fit it in place is a difficult proposition, as anyone who has had to do it will agree.

In the illustration presented herewith is shown how a designer provided for framing two sets of joists at the same level even though the I-beams supporting them were set on bases with different elevations. Notice that the joists resting on the left-hand beam lie directly on the top of the beam, but those resting on the beam on the right side are carried on a plate framed to the under side of the beam. Thus, though the undersides of the beams were at elevations of 12" difference, the tops of the joists were at the same level and in position.

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Eternit Rigid Asbestos Shingles are priced to let you compete with substitute roofings



EVERY dealer has noticed the increasing popularity of rigid asbestos shingles. It's easily explained. Everyone realizes that these shingles make roofs that never need repairs or replacement — that are fire-proof, weather-tight and everlasting.

There are many good asbestos shingles. But now comes Eternit, the improved rigid asbestos shingle, so *moderately priced that you can compete with substitute roofings and still make a fine profit.* Eternit is a shingle you can be proud to sell. It will more than justify every claim you make for it.

In addition to quality and price, you have a simple, workable finance plan that lets you sell roofs on an easy-payment basis. It is no longer necessary for you to pass up prospects simply because they have not the ready cash. Neither need you carry them along on your books.

Because of our exclusive dealer policy, you know that all business developed in your territory will come to you. So you profit directly from our national advertising—full color pages in magazines that reach your best prospects.

Through our field force and home office we co-operate with you closely. We show you how to develop your territory—and then help you do it. We realize the necessity of prompt service and carry enormous reserve stocks to assure you the best kind of service even in the busiest seasons.

Other dealers tell us their Eternit franchise has brought them more roofing business than they ever did before. As the Eternit Shingle Man in your territory there is the same opportunity for you. Return the coupon today.

Eternit
Reg. U. S. Pat. Off.

RIGID ASBESTOS SHINGLES
Make your first roof last

Ask about Eternit Asbestos Building Lumber—the same materials made up in sheet form.

AMERICAN INSULATION COMPANY
Roberts Ave. and Stokley St., Philadelphia, Pa., *or* Hibernia Bank Building, New Orleans, La.

Send me details of your exclusive sales plan on Eternit Asbestos Shingles.

Name.....

Business.....

Address.....

City.....**State**.....

We can give you more definite information if you will also tell us what kind of roofing you now carry.....?

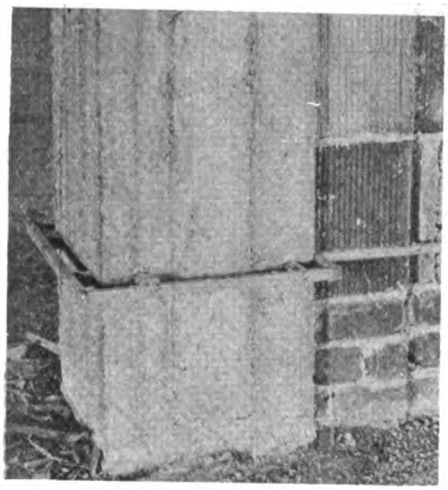
And whether you buy in C/L or L/C/L.....?

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On the Job with the Construction Editor

Grounds for Concrete Column

HERE is shown a method for setting plaster grounds in a concrete column. Wood plugs are driven into the column, sawed off to the desired projection and the grounds nailed to the wood

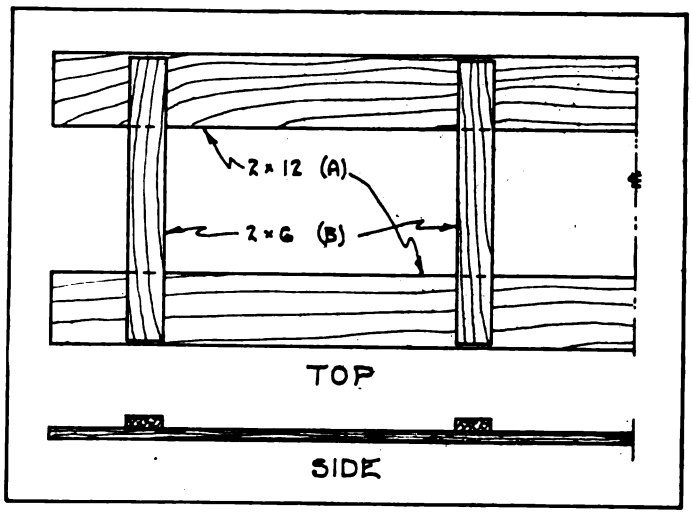


plugs. If properly and securely driven, the plugs will hold, and it is unlikely that the columns will be weakened by driving them. E. C. English, of Tucson, Ariz., was the contractor on whose job this photograph was taken.

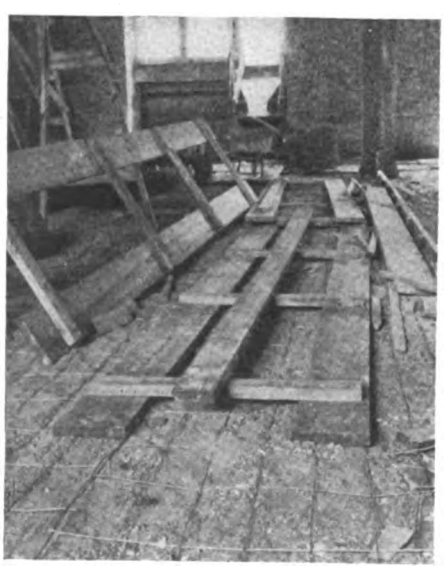
A Bridge for Cement Workers

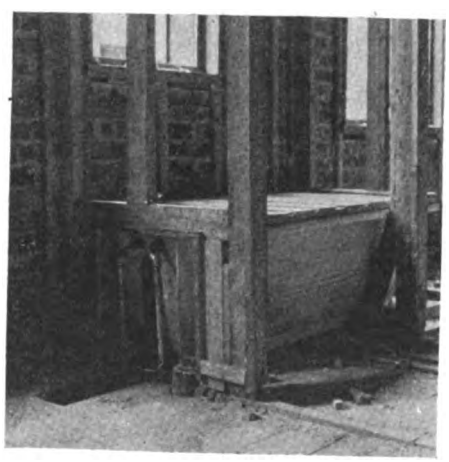
MANY a fresh cement floor has been permanently marked because some careless workman stepped on the surface before it had set. These surface marks are ugly, but in some cases the men employed on the job do not seem to take this fact into account. Only too often are they neglectful, with the result that the surface of an otherwise smooth floor is marred.

The contractor on whose job this illustration was made seemed to have this point in mind, for he developed a way of overcoming it. At frequent intervals he placed bridges, as shown here, across any partially set floor where it would be necessary for workmen to cross. These bridges were made of 2″x12″ held together as shown in the sketch by a few 2″x6″ cross-pieces. A plank, set across the cross-pieces formed a runway over which the men could walk.



Since these 2″x12″ planks provided a large amount of bearing area, it was perfectly safe for a man to cross on a fairly fresh floor. It was necessary, of course, to see that the bridge was carefully set down lest it cause marks itself.

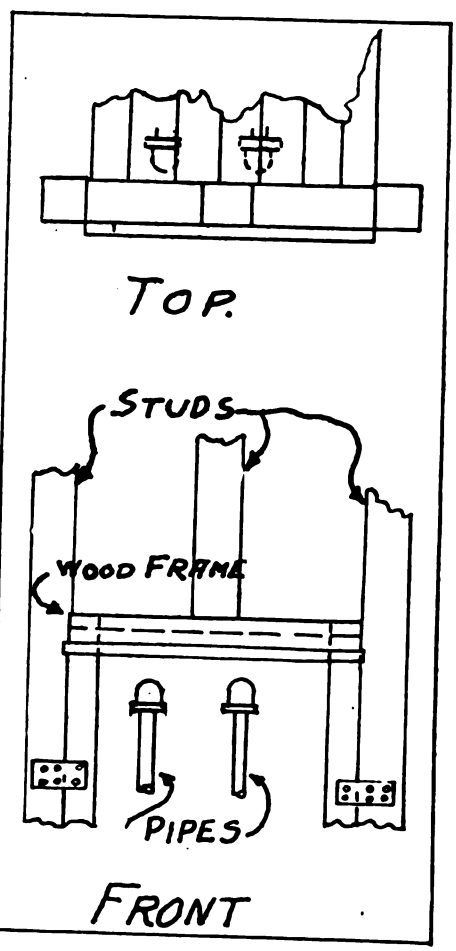




Framing for an Aproned Bath Tub

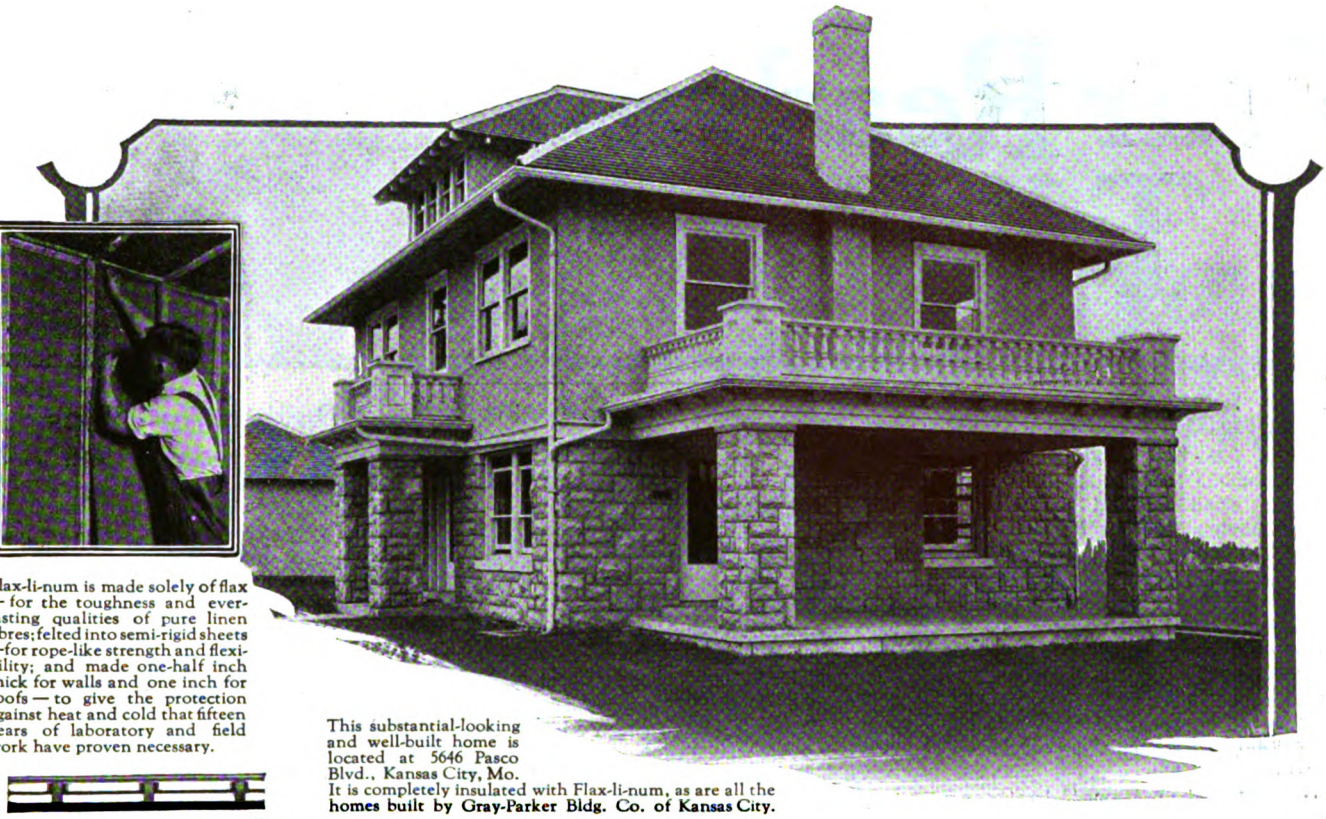
IT HAS become quite the vogue to install aproned bath tubs, or the type of tub which has an apron in front which extends to the floor. This is more familiarly known as the "built-in" tub.

In setting such a tub, all fittings are concealed, and it becomes necessary to provide a panel where access to the fittings may be had, the framing for such a panel is shown here. It consists of the same kind of framing that goes to make up a door opening, and is fixed with plaster grounds as shown. After plastering, the panel is set in place. The panel may be carried on hinges or fastened with screws, the former being the most convenient method and the latter the least expensive.

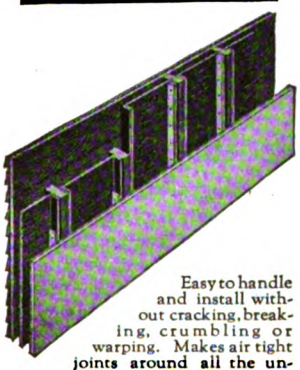


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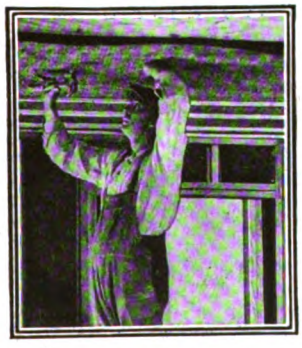
Flax-li-num is made solely of flax — for the toughness and everlasting qualities of pure linen fibres; felted into semi-rigid sheets — for rope-like strength and flexibility; and made one-half inch thick for walls and one inch for roofs — to give the protection against heat and cold that fifteen years of laboratory and field work have proven necessary.



This substantial-looking and well-built home is located at 5646 Pasco Blvd., Kansas City, Mo. It is completely insulated with Flax-li-num, as are all the homes built by Gray-Parker Bldg. Co. of Kansas City.



Easy to handle and install without cracking, breaking, crumbling or warping. Makes air tight joints around all the uneven and irregular places in house construction.



One-half inch of Flax-li-num in outside walls and one inch in the top story ceiling keeps the heat inside from saturating the walls and ceiling and being lost into the outside air. In summer Flax-li-num prevents the rays of the sun from saturating the roof and making the upper floor rooms hot and unlivable. The Flax-li-num lined house requires less radiation and a smaller boiler. It burns several tons less fuel each winter.

Today They Want COMFORTABLE HOMES!

THE day of "Jerry-built" houses is past. Cold, drafty, hard-to-heat houses are no longer in demand, and houses that are excessively hot during the summer are not considered at all.

Today, people who build want comfortable homes; homes that are well-built and *built-warm*; homes that are as comparatively cool in summer as they are warm in winter.

Whether you build on contract or for re-sale, do not forget the *comfort* element. It is the one factor in home construction most *important to you* from both a *profit* and a *reputation* viewpoint.

There is one sure way in which you can incorporate this factor of comfort. *Insulate the houses you build with Flax-li-num*—the correct building insulation. Flax-li-num stops heat. It keeps it from soaking through to the interior in summer and prevents its leaking out through walls and roofs during the winter.

Houses insulated with Flax-li-num are always comfortable — warmer in winter and cooler in summer. Flax-li-num costs little to install. This cost is immediately offset because Flax-li-num makes possible a saving in radiation.

The additional cost to the owner is offset by a yearly reduction of from 25% to 33⅓% in heating expense.

Build better houses, more comfortable houses, houses that are easier to sell and easier for the owner to heat, by using this good insulating material.

The engineering department of this company and the factory representative in your community are eager and ready to assist you.

FLAX-LI-NUM INSULATING CO., *St. Paul, Minnesota*

Flax-li-num

The Correct Building Insulation and Sound Control Material

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Our Readers Tell Us



American Home Abroad

FROM the General Commissioner, American Section International Exhibition of Household appliances and Labor Saving Devices, New York City, comes the information that on November 27th an American Ambassador of this organization will sail for Paris. The Embassy's official title will be "The American Home." Its purpose will be to demonstrate to the men and women of France how American inventive genius has driven drudgery from the home and increased its comforts and luxuries.

"The American Home" has been constructed in Brooklyn and will be dismantled, shipped to France with all its equipment and furnishings, and reconstructed in the Grand Palais. When the Interational Exhibition is closed, the house will be given away as a gift of the American people to the French citizen who has made the greatest contribution to humanity in the last few years. It will again be dismantled and re-erected on the site selected by this French citizen.

Among business enterprises cooperating in the American Home project are: Maple Flooring Manufacturers Association, Copper and Brass Research Association, The New York District Common Brick Association, The Crane Company, General Electric Company, Pratt and Lambert, United States Gypsum Company, The Atlas Portland Cement Co., Yale and Towne, The H. B. Ives Company, The General Fireproofing Company, American Radiator Company, Buffalo Cooperative Stove Company, Domestic Electric Company, Walker Dish Washer Company.

T. F. Manville Dies

THOMAS FRANKLIN MANVILLE, Chairman of the Board of Directors of Johns-Manville, Incorporated, died at 6:45 P. M., Monday, October the 19th, 1925, in New York City. Mr. Manville was one of the country's great business builders. For the past twenty-five years he has been the directing head of Johns-Manville, Incorporated, the world's largest producers and manufacturers of Asbestos, during which time he has built up an outstanding organization fully capable of carrying on his plans and policies to even greater achievements. His brother, H. E. Manville, who succeeded to the Presidency of Johns-Manville, Incorporated, in 1924, was closely identified with him during this entire period and will continue to direct the policies of the organization.

In addition to Chairman of the Board of Directors of Johns-Manville, Incorporated, the late Mr. Manville was President of the Arizona Asbestos Company, Treasurer and Director of the Asbestos Wood & Shingle Company, President and Director of the Canadian Johns-Manville Company, Director of The Fibre Corporation, Director of the Fifth Avenue Bank, Trustee of the Franklin Savings Bank, President of the Board of Trustees of the Fifth Avenue Hospital, and President and Director of the Manville Securities Company. He was a member of the Bankers, Metropolitan, and Union League Clubs in New York City.

Paying for Plans

THE Master Builders Association of Iowa in their publicity organ, "The Iowa Builder," take up the question of paying architects for the use of plans for estimating and bidding.

While 99% of the architects in Iowa have admitted the injustice of making such charges, occasionally there arises a case where the architect will make an effort to revive this antiquated practice. The constitution of the association prohibits such payments.

"Someone gets the idea of requiring the contractor to put up a deposit for plans and specifications and thus avoiding the bother of returning it by the simple process of pocketing the proceeds, or else return a small part of the deposit and retain the balance."

Sawing Into a Second Century

IT is not known just what guarantee the manufacturers of this saw gave to its purchaser. It is reasonable to assume, however, that its 165 years of service have long outlived any promises that the makers may have made.

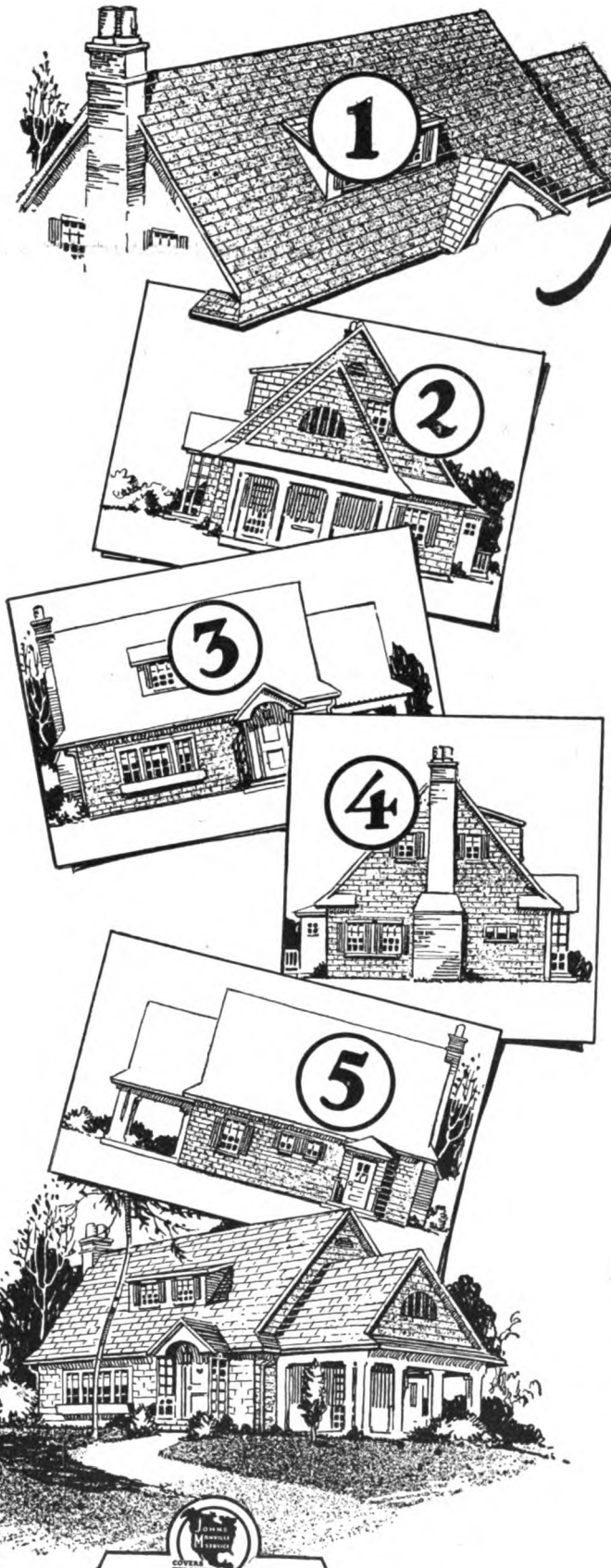
Holding it in the picture is Captain J. K. Hedrick of Cincinnati, Ohio, one of our older readers. When, in 1760, this ancient handsaw came into the possession of the Hedrick family in England it was regarded as a great curiosity. When the family migrated to this country they brought it with them and in later days used it to build many of the pioneer homes in Kentucky.

To further the distinction that its age gives it, it was further honored by the fact that Daniel Boone frequently used this saw in his pioneer work. While it has not been conclusively proven that this is the oldest saw in the world, it may honestly hold that recognition until another contestant is heard from.

Perhaps some of our readers may be the proud possessors of some antiquated tool that will make this saw young by comparison. We would like to hear.



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Multiply your shingle profits by five

DON'T stop at re-roofing. By covering the four sides of a house with Johns-Manville Asbestos Shingles as well as the roof you multiply your shingle profits.

And it is just as easy to sell re-siding as re-roofing. The same sales arguments hold true: permanent protection from fire, weather and time, no need to tear off the old siding, no need to paint, and unequalled economy. There is even an additional point: re-siding improves the appearance and fire protection of the *entire* house while re-roofing changes only the top.

Combining re-siding with re-roofing brings in five times the profit to you. Let us tell you more about it.

JOHNS-MANVILLE INCORPORATED
292 Madison Avenue at 41st Street, New York City
Branches in 63 Large Cities
For Canada: CANADIAN JOHNS-MANVILLE CO., Ltd., Toronto

COVERS THE CONTINENT
Through
Asbestos
and its allied products
INSULATION
BRAKE LININGS
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PACKINGS
CEMENTS
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Our Readers Tell Us

Air Brush Painting Test

IN a recent announcement from the Paasche Air Brush Co., Chicago, J. R. Pollworth reports the completion of a test for the Chicago and Northwestern Railroad Company and the Chicago, Milwaukee and Saint Paul Railroad Company. The results are as follows:

One man painted a solid wooden fence, 7 years old, of smooth surfaced boards, 8 feet high and covered an average of 40 square feet per minute.

The second test was made on a picket fence of raw lumber 4½ feet in height, each picket three inches wide and three inches apart. This was painted a two-coat job at the rate of a picket a minute.

The third result had to do with a second coat on a wooden box car of 1,650 square feet. The car complete was painted in 50 minutes by a railroad hand without previous air brush experience. One gallon of paint was used to every 392½ feet of surface.

The results of these tests will be interesting to those who read the machine painting article recently published in this magazine.

Homes for Steel Workers

NEWS comes to us from the Bethlehem Steel Corporation that homes valued at $13,000,000 have been purchased by 3,400 employees of the Bethlehem Steel Corporation under an organized home-owning plan.

These housing activities are administered by a real estate organization at each one of the plants and includes the improving of existing houses owned by the Company as well as the construction of new residences.

A distinctive and unusual phase of Bethlehem home building plans are:

(a) Complete architectural, engineering, financial and legal assistance and advice.

(b) Employee receives full title to the property at once. He is under no obligation to the company and can work where he pleases and dispose of his property as he wills, as long as his monthly payments are maintained.

(c) A life inurance policy at low rates without any medical examination is taken out by each home builder or purchaser. Provision is made for paying off the mortgage through monthly payments, a little higher than local rents.

Association News

THE Members' News-Letter of the Associated General Contractors of America announces that the 7th Annual Meeting will be held at Portland, Oregon, during the week of January 18th, 1926.

The Association of Building Trades Employers announces that a National Conference of Building Contractors will be held in Chicago on Tuesday, November 17th, 1925, for the purpose of conducting a survey on probable conditions in the industry for 1926. A similar meeting was held in Cleveland last January.

The American Construction Council will hold a series of conferences on November 19th to 21st. One of the principal features of the meeting will be a National Conference on "Better Building."

Miniature Village

HERE is Tiny Town, a miniature development that teaches the youth of Springfield, Mo., practical building knowledge. The idea originated in 1919 and has been repeated on a larger scale this year at Grant Beach Park.

In all, the work comprises 1,000 models built entirely by school children. An actual city has been reproduced on a scale of one inch to the foot, carefully designed and planned so as to include parks, boulevards, segregated factory and business districts and restricted residence sections.

The benefits accruing from the development of this idea are multifold. Just as in real building work, each structure is carefully designed, painted and waterproofed. The Tiny Town idea is bidding for National acceptance.

Of Trade Interest

A LARGE addition to the Plastergon Wall Board Company's property is represented in the new unit of their Buffalo, N. Y., plant. It is to take care of that portion of their buildings destroyed by fire in 1924. The investment will amount to approximately $250,000. The building will be entirely fire-proof and equipped with the most modern wall board machinery.

The Burress Clark Company has been appointed the Florida West Coast representative of the Chain Belt Company, Milwaukee, manufacturers of Rex Concrete Mixers and Pavers. Mr. Wayne S. Clark was formerly western representative of the Boehck Machinery Company and has varied experience in contractor's equipment. Headquarters will be in care of the Tampa Warehouse Company, Morgan and Water Sts., Tampa, Florida.

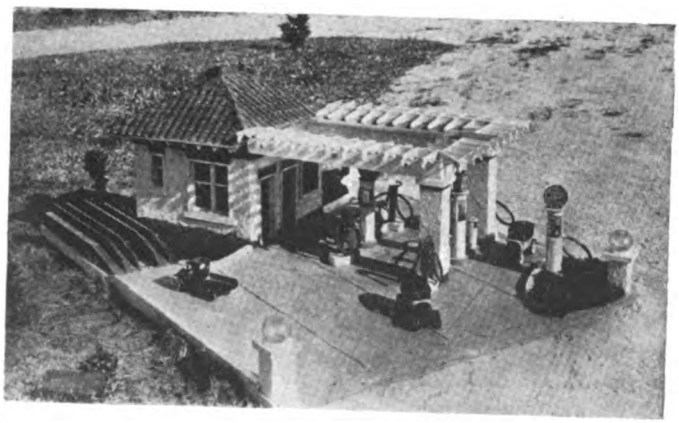
Roof Leaks

NO monthly prize is being offered for the most interesting news but L. K. M. sends in this one. He says, "he doesn't care; the building field should know of this tremendous moving project. Think of it; moving an entire city. It is by far the greatest feat he has ever known. What? Wheeling, West Virginia!"

This brings up the possibilities of an All-American House Building Contest. What town and state will offer the most in materials and labor?

Boulder (Colorado) makes first bid for the foundation work. Mason (Mich.) will handle the labor contract. No word has yet been received but there is no doubt but Carpenter (Ohio) will get in touch with Spruce (Pa.) for their part in the work. Plummer (Mich.) is to be counted on with sanitary work by Flushing (Long Island). Missouri will do the Painton. Will Massachusetts be Boston the job?

The All-American Home Building Contest is under way! What can the towns in your state contribute to this nation-wide enterprise?





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Build *Your* Houses

"Bright and Airy Everywhere"

That's a sales argument that usually gets results. Back it up with "Fenestra Windows in every room," and you've gone a long way toward closing a sale.

Fenestra modern steel windows make every room more bright and pleasant and livable. They help prolong the life of a home, and add to its appearance and value, yet they cost little if any more than wood windows. Fenestra Windows save time in installation, and because they can be quickly obtained, already assembled, they eliminate many costly delays in construction.



Upstairs ~ in the Basement ~ in the Garage

Fenestra Casements are of beautiful design and add charm and interest to the finest home. And they are entirely practical—*they admit maximum daylight and fresh air and keep out the storms.* Wide, out-swinging leaves, operated by attractive iron or bronze hardware, open and close easily. The sash never warps, swells nor rattles; glass may be washed on the outside without danger or inconvenience.

Fenestra Basement Windows, made of solid steel, admit as much as 80 per cent more light and air than wood windows. They change dark basement waste spaces into sunny, airy, usable work-rooms or play-rooms for the children.

These modern windows are more secure against fire and intruders, they cannot warp or stick, and they last as long as the building.

Fenestra Utility Windows have a wide, easily-operated ventilator that allows dangerous gases and foul air to escape, and the broad panes of this Fenestra type admit far more light than wood windows of the same size.

These windows lock automatically in closing, and because they are made of solid steel they are fire-proof, yet their cost is surprisingly low.

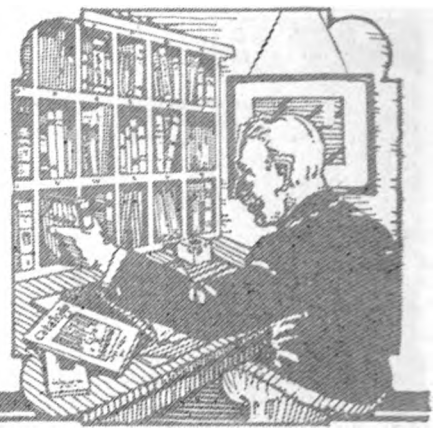
DETROIT STEEL PRODUCTS COMPANY, A-2252 E. Grand Boulevard, Detroit, Mich.
***Factories* in Detroit, Mich., Oakland, Calif., and Toronto, Ont., Canada.**
***For Canada:* Canadian Metal Window & Steel Products Ltd., 168 River Street, Toronto, Ont.**

Fenestra

for homes, large and small
shops and small factories
garages and service stations
stores and other buildings

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USEFUL CATALOGS



Tractors were invented first to cultivate the vast tracts of our Middle West. Their uses now include every branch of building work. Contractors are finding them great time and money savers. Catalog No. 26 deals with the tractor line of Mead-Morrison Manufacturing Co., Boston, Mass.

Convertible Levels may be obtained at moderate cost and upon easy payment plans. Circular "E" describing the G & B Junior convertible level is published by Geier & Bluhm, Inc., Troy, N. Y.

Gas Ovens and Ranges possess a particular interest for the housewife, and the wise builder will make his appeal to her. Kitchen equipment designed to satisfy the particular woman is described by the American Stove Co., Lorain, O.

Canvas Roofing speceially treated for protection against mildew and rot, and that will not stretch or crack serves a useful purpose for screen and sleeping porches, roof gardens, etc. Booklet A of Wm. L. Barrell Co., 50 Leonard St., New York, gives full details of such a material.

Metal Lath that is self-furring, affords wide stud spacing and wastes little plaster, gives assurance of a crack-free, permanent job. The General Fireproofing Co., Youngstown, O., tells the story of rigid metal lath in its "Fireproofing Handbook" now in its eighth edition.

Plastering can be made easy by the proper selection of finishing plaster. The Kelly Island Lime and Transport Co., Leader-News Building, Cleveland. Ohio, have issued an interesting booklet describing their Tiger White Rock Lime finish. This booklet contains some very valuable data and specifications.

Electric Reflectors provide better illumination where it is needed and prevent unnecessary distribution. Day-Brite showcase and bank-screen reflectors are described in catalog No. 5 of the Day-Brite Reflector Company, 703 South Broadway, St. Louis, Mo.

Stripped Shingles mean bigger profits for the builder. An interesting folder shows actual size of the Ru-ber-oid Hex-Strips, also cost per square. It is described by The Ruberoid Co., Dept. 2, 95 Madison Avenue, New York City.

Utility Saws open a profitable field to the enterprising builder. "Sawing Your Way to Success" is the name of a new folder of W. B. & J. E. Boice, Toledo, Ohio. This and other literature describe the Boice-Crane Utility saw.

Steel Windows for private garages, small shops, rears of stores, etc., may now be had at a very moderate cost. A popular type has just been designed by the Detroit Steel Products Co., A-2252 E. Grand Blvd., Detroit, Mich.

THERE are many new catalogs reviewed here this month. Your file will be benefited greatly by their acquisition. New materials, new equipment are set forth in convenient form. Write to this department of the magazine or to the manufacturers.

Gypsum Products are presented in an interesting and striking manner in an article entitled "Do We Build to Burn?" prepared by Virgil G. Marani, C. E., Mem. Am. Soc. C. E. It is a full presentation of the fire prevention question for homes of moderate cost as well as for the larger structures. Inquiries should be directed to the Secretary of the Gypsum Industries, 844 Rush Street, Chicago. Ill.

Portable Saws pay for themselves in a short time in saving in time, labor and material. A compact little model known as the Silver Portable Saw is described by the Silver Manufacturing Co., Salem, Ohio.

Hinges for special purposes are described in catalog No. 42 of Richards-Wilcox Mfg. Co., Aurora, Ill. This book is to be used in connection with the service of their engineering department for special hinge problems.

Insulating Lumber is further discussed in a new folder "Four Walls or A Home" of the Celotex Co., 645 N. Michigan Ave., Chicago. This new literature is in color and will prove extremely interesting to builders.

Warm Air Heating supplied by Waterbury seamless furnaces insures clean heat under all conditions. This subject is taken up in catalog F2 of the Waterman-Waterbury Co., Minneapolis, Minn.

Electric Household Appliances of dependable and economical nature are taken up in general catalog No. 103 entitled "Wange Electric Heating Devices" published by Wange Electric Co., 5100 N. W. Ravenswood Ave., Chicago, Ill.

Elevators and Dumb Waiters, adapted to the conveying of materials on the job, and also for installation in residences and buildings, are described in an illustrated pamphlet of the Kimball Bros. Co., Council Bluffs, Iowa.

Roofing Slate, including illustrations of old European roofing slate in varying colors, grades and thicknesses structural slate, blackboards, etc., are included in a description of slate products issued by the Knickerbocker Slate Corp., 153 East 38th St., New York City.

Garage Doors hung so that they can be adjusted to the settling of cement floors and operated so that one door can be opened without disturbing the others are described in literature of the National Mfg. Co., Sterling, Ill.

Sash Balances that eliminate the necessity of box frames, cords and weights, and combines economy with safety are described in a folder of the Pullman Mfg. Co., Rochester, N. Y.

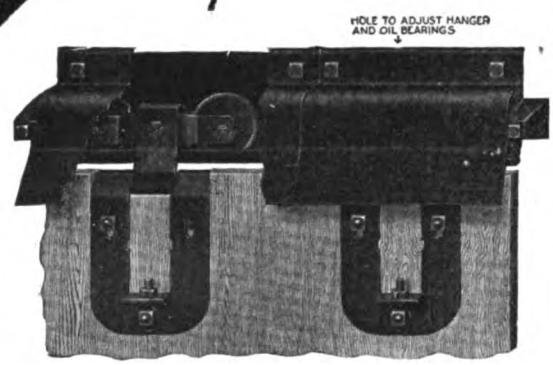
Surveying Instruments must be accurate and of good construction. The prospective purchaser should examine well the specifications of several types of instruments. A new folder No. 24, describes several types manufactured by Warren-Knight Co., 136 North 12th St. Philadelphia, Pa.

Steel Scaffolds give the workman assurance of safety and enable them to do more and better work in consequence. A folding steel scaffold that stands on two legs and hooks around the studding is described by the Steel Scaffolding Co., Evansville, Ind., in a recent catalog that every builder should send for.

Portable Machines that rip, cross-cut, miter, bevel, groove, joint and plane proclaim their usefulness by their versatility. A Bulletin "E," issued by the Tannewitz Works, Grand Rapids, Mich., gives data relating to such a machine.

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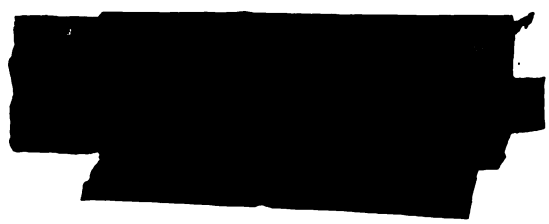
National No. 88 Hanger



ORDER No. 88 and you'll get a roller bearing hanger with the load scientifically distributed; a long service hanger; a hanger with both vertical and lateral adjustments; one which handles heavy doors with great ease; which gives complete storm protection and which carries the door closer to the rail than any other type.

Storm-Proof Rail

With protective cover



IF steadily increasing sales and repeat orders mean anything the Storm-Proof Rail is the most popular of all among contractors and builders. Fits close to the building; is storm-proof and bird-proof; no brackets are required; the sections form practically a one-piece rail; no splice covers necessary. A Winner!

National Manufacturing Company
STERLING ILLINOIS

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Some More Useful Catalogs

Building Hardware should be selected for the air of artistic finish it imparts to a home, as well as for its durability and wearing qualities. Hardware for high grade doors and windows is described in a fully illustrated booklet issued by the H. B.. Ives Co., New Haven, Conn., sent on request to builders.

Interlocking Wood Columns for the porch or pergola, and for the entrance to the home are described in an elaborate catalog illustrated with photographs and working plans, issued by Hartmann-Sanders Co., 2187 Elston Ave., Chicago, Ill.

Refrigerators should be so constructed as to remain dry. A refrigerator that meets this requirement and has provision for outside icing is described in literature of the Herrick Refrigerator Co., of Waterloo, Iowa.

Metal Weatherstrips result in a decreased consumption of fuel, greater comfort and less dirt and noise. This permanent and paying improvement is described in a catalog of the Federal Metal Weatherstrip Co., 1242 Fullerton Avenue, Chicago, Ill.

Woodworking Machines in your shop will enable you to turn out every piece of lumber you need as you want it and when you want it. All types of saws, shapers, mortisers, grinders, etc., are contained in the catalog of the Sidney Machine Tool Co., Dept. 308, Sidney, Ohio.

Door Beds constitute one of the necessary features of modern apartments, and they have proved their worth in the home. The Murphy Door Bed Co., 22 W. Monroe St., Chicago, describes in a recent catalog a product easy to handle and an admirable space saver.

Bathrooms of modern type are an asset to the home. A new illustrated folder of the Johnson Plumbing Supply Co., 3639 South Halsted St., Chicago, shows a complete line of bathtubs, lavatories, sinks, closet outfits, etc. It will be sent to builders on request.

Ornamental Steel Poles for use as flag masts, etc., and specially designed for monumental projects, are detailed as to materials and installation in a catalog of the Pole and Tube Works, 222 Market St., Newark, N. J.

Safety Brackets are a boon to all ladder users. An unbreakable variety made of drop forged steel weighing less than six lbs. per pair is manufactured by the Seaman Safety Bracket Corporation, Rochester, N. Y.

Levels of a design that insures instantaneous action in adjustment from levels to vertical angles without having to be lifted out of their ways are a great help to the builder. Complete information regarding these levels is contained in the catalog of B. L. Makepeace, Inc., 387 Washington St., Boston, Mass.

Mortising by hand is a slow and tedious process, but there is a simple, low-cost machine that will do the work quickly with a clean cut and leave a finished job. Such a machine is described in the new folder issued by the Colgan Machinery and Supply Co., 211 Hayden Building, Columbus, Ohio.

Floor Surfacing Machines are a necessity in these days of hardwood floors. To save time and money in doing the work, wise builders are adopting modern methods. These are taken up in descriptive folders issued by Wayvell, Chappel & Co., 137 N. Jackson St., Waukeegan, Ill.

Gas Producers that by a simple process will provide gas fuel for the suburban home with no smoke or odor and at little expense is described in a catalog of the American Heating & Lighting Co., Morenci, Mich.

Cinder Building Blocks are treated very comprehensively in the new Straub catalog. The problem of the small house is taken up and answered with a wealth of photographic illustrations of actual construction work and use of Straub blocks. Another section deals with testimonials and others with official tests, etc. The publishers are the Cinder Concrete Corporation, 120 West 42nd St., New York.

Woodworking Machinery of the highest quality is an urgent need for the builder. A description of many devices including band saws, swing saws, shapers, jointers, planers, saw tables, mortisers, etc., is contained in a catalog of the Crescent Machine Co., 206 Main St., Leetonia, Ohio.

Rotary Exhaust Ventilators find a necessary place in the construction of factories, lofts, barns and similar buildings. A complete description of several types of ventilators suitable for various buildings is contained in the booklet of E. G. Washburne & Co., 207 Fulton St., New York City.

Bench Machines have the advantage of enabling the busy builder to run off jobs in his own shop in an emergency. A handy portable machine is described in the catalog of J. D. Wallace & Co., 150 S. California Ave., Chicago.

Gas Producers installed in a suburban home place it on a competitive basis with city property. Detroit Suburban Gas Plant Company, Detroit, Mich., have literature.

Tiles in a variety of designs and colors are found in the "Tile Book," published by Lloyd Floor & Wall Tile Co., P. O. Box 5064K, Kansas City, Mo.

Heating Outfits are nerve centers of the home, the derangement of which often spells acute discomfort. Literature describing and illustrating hot water systems and grilles of superior type is published by the American Radiator Co., 40 West 40th St., New York City.

Waterproofing Building Paper of unusual type is being manufactured under the name of Sisalkraft. Samples are obtainable showing the exact composition—two layers of No. 1 Kraft, cemented together with asphaltum and reenforced in two directions by Java Sisal fibres. Manufacturers are American Reenforced Paper Co., Attleboro, Mass.

Toilet Partitions of a new type are being introduced in literature of Hart & Hutchinson, New Britain, Conn. It describes the new addition to the Hart & Hutchinson line. Builders will find it valuable for their files.

Building Courses by mail are described in two interesting little booklets of the Tyrean Institute, Palmer, Mass. They are entitled "What About Your Future?" and "Your Chance to Make Good." These take up the question of self improvement from an interesting angle.

Roofing Tile of various description are now standard equipment in many specifications. "Hawthorne Roofing Tile Catalog No. 5" is a novel book in that specifications and illustrations cover the first few pages while descriptive copy is left for the back. Publishers are Hawthorne Roofing Tile Co., 22nd St. & 48th Ave., Chicago, Ill.

Cement Tools are presented in a highly attractive form in the house organ "Finishing Touch" published by the Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich. Editorially it is prepared in a very comprehensive manner and the handling of the material section is clear and well defined.

Kitchenette and Kitchen Storage equipment plays a signal part in selling the prospective home owner. In the housekeepers' opinion, the kitchen equipment is of great importance. "Steel-Maid" combination kitchens, up-to-date convenience features, are described in new folders of the Cicero-Chicago Corrugating Co., 16th St. and 52nd Ave., Cicero, Ill.

Drawing Instruments of high quality should be part of the permanent equipment of every progressive builder. A list of these necessary office appliances is contained in an illustrated catalog of the David White Co., Inc., 907 Chestnut St., Milwaukee, Wis.

Door Hardware can be either an asset or a detriment in a home that is built for speculation. It is upon such details that the judgment of the house often rests. A builder can secure some helpful hints regarding the selection of hardware from a booklet issued by Sargent & Company, New Haven, Conn.

Contractors' Textbooks, including "Building Estimators' Reference Book" and "Vest Pocket Estimator," are issued in new form by Frank R. Walker Co., 536 Lakeshore Drive, Chicago, Ill.

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HESS *Welded Steel* FURNACE



IF WE SAID NEVER A WORD

Hess Welded Steel Furnaces would sell, for many thousands of satisfied customers are telling of good performance,— of small fuel consumption,— of ample heat,— of freedom from gas and dust,— of low cost of repairs,— of good and prompt service from the makers, and *These Sell* Hess Furnaces.

For your home; whether you build new, or to replace the old heater, the Hess Welded Steel Furnace will fully please you.

Write for full information and booklet. Send us a sketch of your house, and ask us to tell you what it will cost; direct from factory to you, planned and guaranteed by the makers.

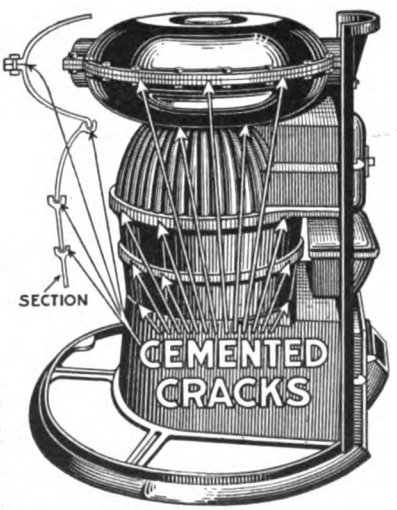
$50.00 will put it in your home, the balance in easy payments.

HESS WARMING & VENTILATING COMPANY
1201-M South Western Avenue, - Chicago

BRANCHES AT; BROOKLYN DETROIT CINCINNATI MILWAUKEE MINNEAPOLIS

DON'T BUY A CRACKED FURNACE.





The old type of cast iron "pot" furnace with 30 to 60 feet of cracks, small and unevenly heated radiating surfaces. Established a reputation for dirt and dust, and lives up to it. WE DO NOT MAKE THIS KIND.

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Review of Building Situation

IT IS customary for September building reports to show a seasonal decline of about 7 per cent. This was the actual decrease this September, according to F. W. Dodge Corp., the total being the second largest on record. August was the highest. This September's increase over a year ago amounted to 59 per cent. 36 eastern states (excluding Gulf District) reported a building total of $548,216,700.

Residential took 46 per cent of this and commercial 15 per cent. Contemplated new work for September totalled $661,397,100, a 54 per cent increase over last September and 19 per cent below August.

New England's volume for the first nine months has exceeded total for the year 1924. The $397,221,100 reported exceeded the first nine months of last year by 37 per cent. September building was $47,636,800, only 3 per cent less than August and 57 per cent over September, 1924.

For New York District, the $130,375,500 reported was 56 per cent over September last year. This figure was, of course, under the record volume for this August. Residential work demanded more than half of the total. In the first nine months, the total, $1,087,318,900, exceeded corresponding total for 1924. New construction contemplated was 81 per cent over September, 1924.

The Mid-Atlantic reports $48,482,600, showing a seasonal drop of only 7 per cent below August. New work was 15 per cent more than amount for September, 1924.

The Pittsburgh District's volume for nine months has exceeded the total for all of last year by 11 per cent. The September report of $66,314,800 was 14 per cent below August, but 36 per cent over September last. Contemplated work was 20 per cent over September, 1924.

Another nine months' total exceeding the entire 1924 building is found in the Middle West District's report. The excess is 8 per cent. September records reached a second largest monthly total, 100 per cent over last September. New work contemplated exceeded both August and last September.

The Northwest contracted for 50 per cent more than it did in September, 1924. The total also exceeded this August.

The second highest monthly total on record was represented in the Southeastern District total. It was 84 per cent above last September.

In the Gulf District, the total showed an increase of 43 per cent over corresponding month in 1924. New work was 40 per cent in excess of last September.

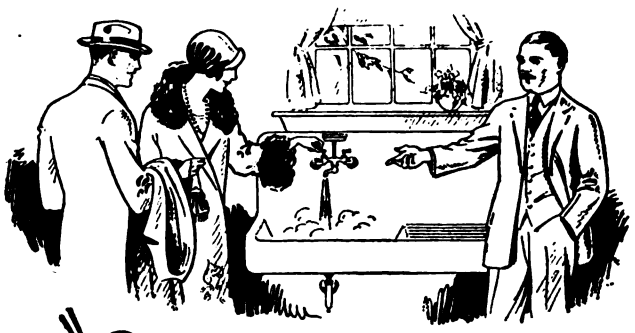
Record of September, 1925, Building Contracts Awarded

Classification of Buildings	SECTION OF COUNTRY: New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North West District	South Atlantic District	Gulf District	Totals
Commercial Buildings.	$7,584,500	$25,394,500	$6,533,900	$15,359,600	$13,122,200	$1,224,400	$10,952,700	$5,227,000	$85,398,800
Educational Buildings.	5,295,000	5,812,800	5,445,100	4,947,500	10,413,400	626,000	2,677,500	457,900	35,675,200
Hospitals, etc.....	2,531,800	1,477,000	4,845,400	2,252,000	3,570,600	598,000	556.400	110,000	15,941,200
Industrial Buildings...	7,593,600	13,911,000	2,788,700	2,447,000	9,469.500	1,199,000	5,888,900	1,798,500	45,096,200
Military and Naval...	15,000	336.600	149,700	.....	100,000	.....	300,000	55,000	956,300
Public Buildings.....	871,900	2,360,300	96,800	194,500	2,131,800	108,300	4,234,400	302,900	10,300,900
Public Works.....	2,884,000	3,914,400	3,767,600	17,933,400	38,051,800	1,371,300	11,745,500	3,093,300	82,761,300
Religious & Memorial.	1,334,000	1,898,000	1,107,000	1,333,500	4,027,500	428,000	1,324,500	166,100	11,618,600
Residential Buildings..	18,196,900	70.785,900	22,059,300	20,875,300	70,369,400	2,963,900	45,166,300	6,780,100	257,197.100
Social & Recreational.	1,330,100	4,485,000	1,689,100	972,000	9,395,600	954,000	2,436,100	262.000	21,523,900
Total	$47,636,800	$130,375,500	$48,482,600	$66,314,800	$160,651,800	$9,472,900	$85,282.300	$18,252,800	$566,469,500

Building Projects Contemplated, September, 1925

Classification of Buildings	SECTION OF COUNTRY: New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North West District	South Atlantic District	Gulf District	Totals
Commercial Buildings.	$6,378,700	$14,310,000	$7,159,900	$3,941.400	$20,854,700	$870,400	$9,503,800	$3,000,100	$66,019,000
Educational Buildings.	2,685,000	4,034,000	6,454,200	11,308,800	6,487,500	630,500	3,416,000	615,900	35,631,900
Hospitals, etc.....	1,613,000	492,000	2,338,500	648,000	1,541,000	288,000	851.500	315,000	8,087,000
Industrial Buildings...	2,863,600	14,844,000	4,563.700	6,257,000	14,611,500	2,045,000	8,274,000	436,500	53,895,300
Military and Naval...	.....	438,500	140,000	.....	100,000	48,000	.....	.....	726,500
Public Buildings.....	1,607,500	885,000	301,000	317,500	935,000	85,500	1,062,000	1,530.000	6,723,500
Public Works.....	3.046,300	17,367,800	6,480,400	17,007,600	71,547,500	3,013,200	49.674,700	7,914,600	176,052,100
Religious & Memorial.	1,195,000	1,396,000	452,000	1,895,000	1,073,000	382,000	2,009.700	786,100	9,188,800
Residential Buildings..	17,060,800	106,444,800	41,558.700	23,786,800	52,844,800	3,507,900	49,965,800	6,052,300	301,221,900
Social & Recreational.	1,477,000	11,277,000	2,436,000	865,000	4,622,500	252,000	3,572,100	704,000	25,205,600
Total	$37,926.900	$171,489,100	$71,884,400	$66,027,100	$174,617,500	$11,122,500	$128,329,600	$21,354,500	$682,751,600

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"This is DURO Softened Water"

"See how clear it is! Soap lathers quickly in it and it is five times softer than rain-water. It is always clean and never discolored. You will have all the soft water you want—at all times—from every faucet in the house, without inconvenience, for the Duro Automatic Water Softener is self-operating. You will find it to be the greatest convenience in this home."

DURO *Automatic* WATER SOFTENER

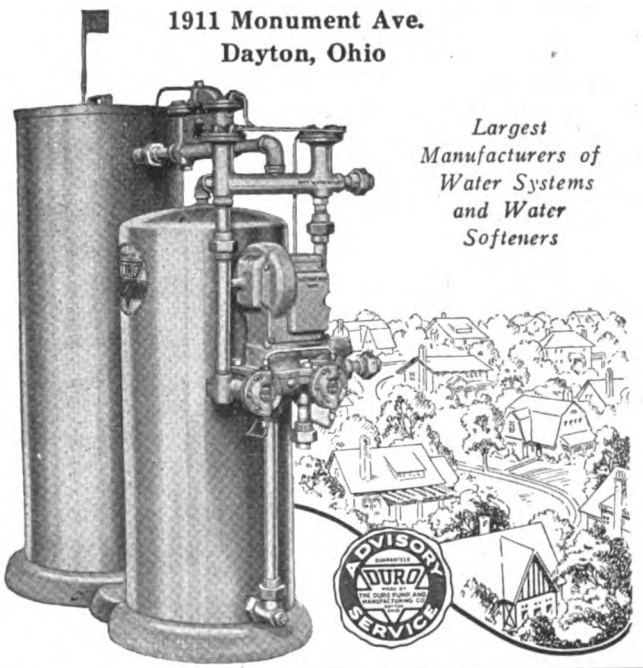
When you make this irresistible appeal to prospects, you have practically sold the home. They want clean, soft water and they instantly appreciate the Duro Automatic Water Softener.

The Duro Automatic Water Softener is *completely* automatic. Supplies 22% to 50% more soft water per pound of salt. Reconditioning of the mineral is done automatically. Fully covered by the Duro Guarantee Bond.

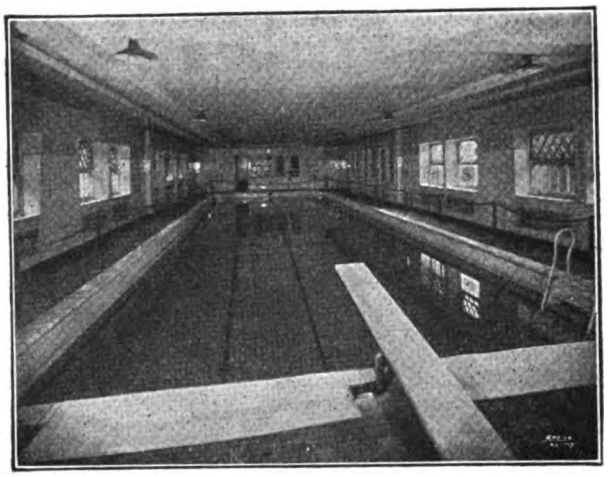
Write today for complete details.

THE DURO PUMP & MFG. CO.

1911 Monument Ave.
Dayton, Ohio



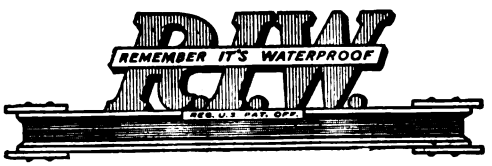
Largest Manufacturers of Water Systems and Water Softeners



Swimming Pool, City Athletic Club, New York

"R.I.W." Toxement used for waterproofing swimming pool—"R.I.W." Hospital and Laboratory Enamel used on walls and ceiling.

When enamel must give unusual service — select



Hospital and Laboratory Enamel

WHERE ordinary enamel proves a disappointment and expense, "R.I.W." Hospital and Laboratory Enamel will stand up under every test imposed by the hard usage common to hospitals, laboratories, bathrooms, engine rooms, cold storage plants, milk stations and the like.

Dept. N will gladly furnish specific information.

TOCH BROTHERS

ESTABLISHED 1848 INCORPORATED 1922
Technical and Scientific Paint and Varnish Makers
110 EAST 42nd STREET, NEW YORK
Works: LONG ISLAND CITY, N. Y.

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Trend of Material Prices

THE following are wholesale prices of basic building materials in the three markets which set prices for the rest of the country.

These prices are presented to show the trend of the wholesale market, which forecasts prices in the retail market. They are not prices which the average contractor can buy at, but are quoted to show him the movement of materials so that he can buy to better advantage. All prices are for carload lots, F. O. B. market quoted, unless otherwise noted.

Followed in conjunction with the Review of Building Situation these prices will prove invaluable.

NEW YORK PRICES

	Sept. 25	Oct. 25
LONG LEAF YELLOW PINE—		
B. & Better Edge Grain Flooring, 25/32x2⅝" Face	$88.00	$89.00
Dimensions, S1S1E, No. 1 Common, 2x4 in., 10..	43.75	43.75
Timbers, Merchantable, 05, 12x12", 10' to 20'.....	53.00	53.00
B. and Better Ceiling, ⅛x3¼.....	42.00	42.00
B. and Better Partitions, ⅝x3¼ in.....	56.00	56.00
B. and Better Finish, 1x4".....	68.50	68.50
No. 1 Common Boards, 1x8.....	50.00	50.00
NORTH CAROLINA PINE—		
No. 2 and Better Flooring, 13/16x2½".....	$62.00	$65.00
Roofers, 13/16x5½ in.....	33.00	34.00
DOUGLAS FIR—		
No. 2 Clear and Better V. G. Flooring, 1x3 in....	$67.00	$68.00
No. 1 Clear V. G. Flooring, 1x4 in.....	69.00	70.00
No. 2 Clear and Better Ceiling, ⅝x4 in.....	41.50	42.50
No. 2 Clear and Better Novelty Siding, 1x6 in...	54.00	54.00
No. 2 Clear and Better V. G. Stepping.....	91.50	92.00
WESTERN RED CEDAR—		
B. C. Perfection Shingle, per M.....	$7.23	$7.23
Washington Perfection Shingles, per M.....	6.85	6.85
Clear Bevel Siding, ½x6 in.....	43.75	43.75
CANADIAN SPRUCE—		
No. 1 Lath, 1½ in.....	$7.50	$8.00
Dimensions 2x4, 10' to 16'.....	36.50	36.50
HARDWOOD FLOORING—		
Clear Quartered White Oak, 13/16x2¼ in.....	$152.50	$152.50
Clear Plain White Oak, 13/16x2¼ in.....	102.50	102.50
Clear Plain Red Oak, 13/16x2¼ in.....	94.00	94.00
Clear Maple 13/16x2¼ in.....	102.00	102.50
(All lumber prices furnished by The Lumber Manufacturer & Dealer)		
COMMON BRICK—		
Per M. f. o. b. job.....	$18.50	$18.50
PORTLAND CEMENT—		
Bbls. in car lots to contractors, delivered.....	$2.50	$2.50
STRUCTURAL STEEL—		
Per 100 lb. at warehouse.....	$3.24	$3.24
CRUSHED STONE (cu. yd.)—		
¾ in.....	$3.25	$3.15
1½ in.....	3.15	3.00
WALL BOARD—		
Per 1,000 sq. ft. in lots under 1,000 sq. ft.....	$50.00	$50.00
Per 1,000 sq. ft. in lots 1,000 to 2,500 sq. ft.....	45.00	45.00
METAL LATH—		
2.2 lb.—26 gauge, price per 100 sq. yd., delivered.	$0.19	$0.19
2.8 lb.—24 gauge, light, price per 100 sq. yd., deliv.	0.22	0.22
3.4 lb.—24 gauge, heavy, price per sq. yd., deliv..	0.25	0.25
(Add 5 cents per sq. yd. for galvanized.)		
LIME (Hydrate)—		
Finishing, per 50 lb. bag.....	$0.65	$0.65
Masons, per 50 lb. bag.....	0.45	0.45
SAND AND GRAVEL—		
Sand (per cubic yard).....	$2.00	$2.00
¾ in. Gravel (per cublic yard).....	3.00	3.00
1½ in. Gravel (per cublic yard).....	3.00	3.00
FACE BRICK—		
Tapestry (delivered)	$47.00	$47.00
Harveale (delivered)	43.00	43.00
Caledonian (delivered)	45.00	45.00
Smooth Grey (delivered)	46.00	46.00
Fiske Lock, f. o. b. factory.....	39.50	39.50
SHINGLES—		
Asphalt, Single (per square).....	$6.50	$6.50
Asphalt strip (per square).....	7.00	7.00
STAINED WOOD SHINGLES—		
10 in. Extra Clear (per square, delivered).....	$10.75	$10.75
18 in. Eureka (per square, delivered).....	11.00	11.00
18 in. Perfection (per square, delivered).....	12.00	12.00
24 in. Royal (per square, delivered).....	12.00	12.00
VITRIFIED SEWER PIPE—		
4 in. (cents per foot).....	$0.13	$0.13
6 in. (cents per foot).....	0.19	0.19
SLATE ROOFING—		
Slatington, 8x16 in. per sq. at quarry.....	$8.40	$8.40
CORNER BEADS (Galvanized)—		
Per foot.....	$0.04	$0.04
WALL TIES (Galvanized)—	Sept.25	Oct. 25
Per thousand	$3.75	$3.75
FLUE LINING—		
8½ x 8½ in., per foot.....	$0.34	$0.34
8½ x 13 in., per foot.....	0.45	0.45
HOLLOW TILE—		
8 x 12 x 12 in., heavy. Each, delivered.....	$0.25	$0.25
HAIR—		
Per bushel	$0.60	$0.60
PLASTER BOARD—		
32 x 36 x ⅜ in. Each.....	$0.26	$0.26
MAGNESITE STUCCO—		
Per ton	$45.00	$45.00
TILE—		
1 in. Square or Hexagon, White, per sq. ft.....	$0.27	$0.27
3 x 6 in., White Wall.....	0.50	0.50
8 x 8 in., Red Floor.....	0.40	0.40

CHICAGO PRICES

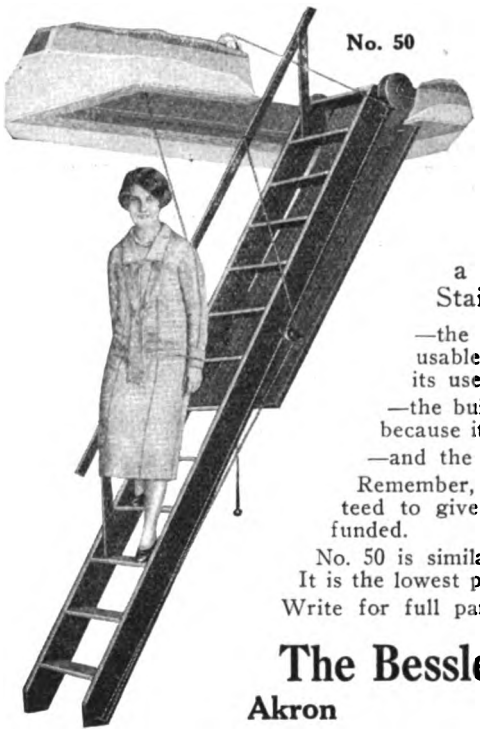
YELLOW PINE—		
Boards, 1 x 8, No. 1 Common.....	$42.00	$42.00
Ceiling, ⅝ x 4 B. and Btr.....	42.00	42.00
Dimensions No. 1, 2 x 4, 12 to 14 ft.....	32.00	32.00
Drop Siding, 1 x 6, B. & Btr.....	51.00	51.00
Finish, 1 x 4, B. and Btr.....	58.00	58.00
Flooring, B. and Btr. E. G., 1x4.....	75.00	78.00
Lath, 4 ft., No. 1.....	7.50	7.50
Timbers, Long Leaf No. 1, 10-20 ft., S4S, 6x12 to 12 x 12	58.00	50.00
HARDWOODS—		
Maple Flooring, 13/16 x 2¼ in. clear.....	$96.00	$96.00
Oak Flooring, ⅝ x 2, Cl. P., White.....	60.00	68.00
Oak Flooring, 13/16 x 2¼, Cl. Pl., White.....	95.00	95.00
REDWOOD—		
Bevel Siding, S1S1E, 8x20, ½x4 clear.....	$34.25	$34.25
Finish, S2S or S4S, 1 x 6 to 8 in., clear.....	82.50	82.50
WESTERN RED CEDAR—		
Bevel Siding, ½ x 4, clear.....	$41.00	41.00
Shingles, extra clear, 16 in.....	4.61	4.61
COMMON BRICK—		
Per M. f. o. b. job.....	$12.00	$12.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers	$2.20	$2.20
STRUCTURAL STEEL—		
Per 100 lbs. at warehouse.....	$3.00	$3.00

ST. LOUIS PRICES

YELLOW PINE—		
Boards, No. 1 Common, 1 x 4.....	$40.75	$40.75
Dimensions, No. 1, S1S1E, Short Leaf, 2 x 4 in., 12 x 14 ft.....	32.50	31.50
Finish, S2S, B. & Btr., 1¼ & 1½x5, 10 & 12 ft..	88.50	88.50
Flooring, B. and Btr., E. G., 1 x 3.....	83.00	85.00
Flooring, B. and Btr., F. G., 1 x 3.....	63.00	63.00
Lath, 4 ft., No. 1.....	7.00	6.00
Timbers, No. 1, rough, short leaf, 6 x 12 to 12 x 12 in., 10 to 20 ft.....	44.75	44.75
CALIFORNIA REDWOOD—		
Finish, S2S, Cl., 1 x 6 in.....	$82.50	$82.50
Siding, 4 in. Bevel, 8 to 20 ft.....	34.25	34.25
8 in. Colonial.....	66.75	66.75
8 in. Bungalow.....	47.25	47.25
HARDWOODS—		
Oak Flooring, ⅝x1½ & 2 in. clear, Qtr. White...	$107.00	$102.00
Maple Flooring, 13/16 x 2¼ in., clear.....	100.00	100.00
RED CEDAR—		
Siding, ½ x 6, clear.....	$42.50	$42.50
Shingles, clears, per M.....	4.71	4.71
COMMON BRICK—		
Per M. f. o. b. job.....	$18.00	$18.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers	$2.30	$2.30
STRUCTURAL STEEL—		
Per 100 lbs. at warehouse.....	$3.15	$3.15

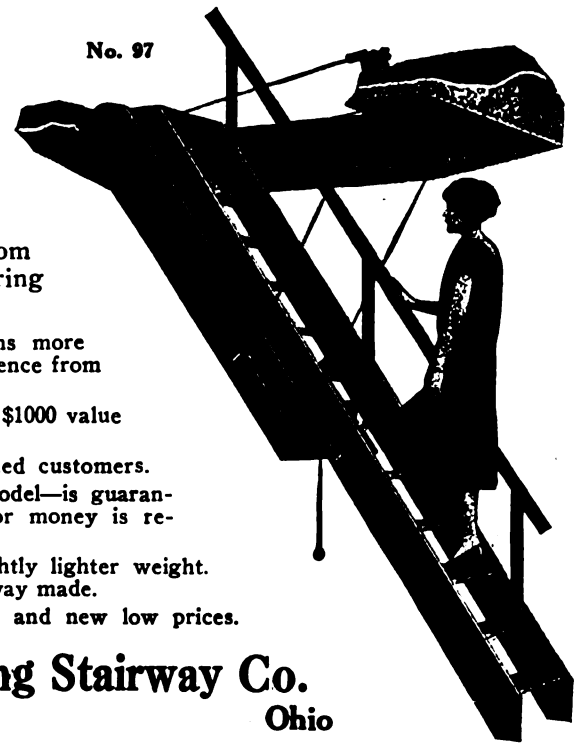
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BESSLER DISAPPEARING STAIRWAYS



No. 50

The Modern Way Up



No. 97

Everybody profits from a Bessler Disappearing Stairway—

—the house owner, who gains more usable space and more convenience from its use.

—the builder, whose house gains $1000 value because it is Besslerized.

—and the dealer, who gains satisfied customers.

Remember, every Bessler, either model—is guaranteed to give complete satisfaction or money is refunded.

No. 50 is similar to No. 97, but is slightly lighter weight. It is the lowest priced disappearing stairway made.

Write for full particulars of new models and new low prices.

The Bessler Disappearing Stairway Co.

Akron :-: Ohio

No Lumber too Rough No Trim too Fine

—For the FAMOUS to cut—or finish

Any woodworking operation from cutting rough lumber to the finishing of finest interior trim can be performed on the New Improved Famous Jr. "30." With a few attachments, over thirty different operations can be performed on this machine.

With no short belts, cross belts nor idlers, the new Famous Jr. "30" gives maximum efficiency with no waste of power. No other machine on the market gives equal value at such small cost.

A Few Things It Will Do:

Turning	Boring	Gaining
Band Sawing	Tenoning	Re-Sawing
Dadoing	Sanding	Planing
Mitering	Shaping	Mortising
Grooving	Cross-Cutting	Molding
Jointing	Ripping	Panel Raising

You can buy the Famous Jr. "30" for the price of two individual machines it replaces. Why spend a dollar when a quarter will do?

Write for full particulars contained in our Bulletin sent free upon request. Address Dept. 311.

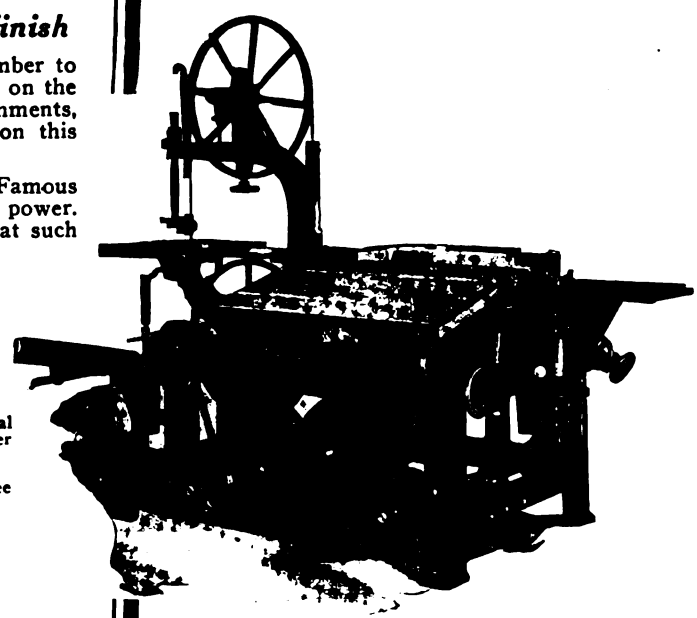
The Sidney Machine Tool Co.

Sidney, Ohio

New Improved

FAMOUS

Jr. "30" *Woodworker*



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WHAT'S NEW



New Materials and Equipment that Keep Your Work Up to Date

New Development in Concrete Mixers

A NEW "two to three" bag concrete mixer, known as the Rex 14-S, has been placed on the market by the Chain Belt Co. of Milwaukee, manufacturers of Rex Mixers and Pavers. The new machine is not an addition to the Rex line but represents the latest development in concrete mixers of this size.

Synchronized action between charging skip and discharge chute, which means the machine can discharge concrete while the skip is charging the drum with fresh aggregates and bigger mixing blades and buckets to get materials into and out of the drum openings are among the new features. It also has an improved countershaft, which is self-adjusting, and equipped with an automatic clutch knockout for the charging skip.

The countershaft itself is mounted on self-aligning bearings; a ball and socket arrangement which easily adjusts itself to shaft misalignments caused by working on uneven ground. The automatic clutch knockout is so arranged that when the loaded skip reaches its proper discharging height, the clutch is disengaged and a brake automatically set. This feature relieves the operator and allows him to devote all his time to discharging.

The skip is built on the same stream line principle of the Rex High Speed Paver. The discharging of the material can be operated from either side of the mixer through a geared discharge mechanism with a large handwheel. Power consists of a 15 H.P. 4-cylinder LeRoi Gasoline Engine.

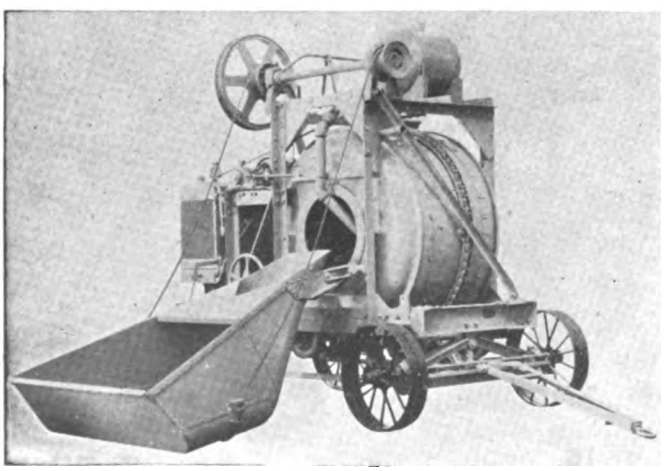
This new model was turned over to a contractor for hard usage for more than a year. It was put on several large construction and building jobs and the fact that it is not a noisy machine has enabled the contractor to use it on a job where it was thought an electric motor driven mixer would be necessary to insure quiet operation.

A Ventilating Brick

DESIGNED particularly for kitchens where there is no room for vertical vent shafts, a new type of brick known as the Riesner Ventilating Brick is manufactured by Benjamin Riesner, 260 East 78th Street, New York City.

These units are made of cast iron or brass with a galvanized iron flue. They are the size of standard brick, louvered, and with water drip top and bottom. Although they usually measure 13 inches from face to inside, shorter or longer types can be supplied.

The installation requires only the bricking in by the mason as he builds up the wall, at a point 6 inches below the bottom of the ceiling, with louvered face to the outer air and with the flue in the room. In addition to their use for kitchens, they are also advantageous for ventilating hung ceilings, attics; cellars in all types of structures. The cost is moderate and their sturdy construction promises longevity.



A four-page folder illustrates two types of Riesner ventilating brick and shows further their installation and the manifold advantages of building them in the structure.

A New Complete Door Control

"TWO doors with but a Singleknob" means that in controlling the garage door one need turn only a single control to open one or both doors. This new device, made by Richards-Wilcox Manufacturing Co., Aurora, Ill., is a unit control which provides for the opening of one door sufficiently wide for entrance. Then, as this one door is pulled back further, the other one swings also.

When an astragal is used on one of the doors overlapping the other one, it is only necessary to lock one door and the other is also locked in place. Lock and bolt are on the inside but are operated from the outside. If additional precaution is desired, the handle on the outside may be padlocked.

Used in connection with the Singleknob is the No. 99 Door Dog which holds the one door open and as consequence prevents the other door from swinging closed.

The Singleknob is adjustable for any width opening from 7 ft. to 9 ft. New literature covers description and specifications of the design.

New Reinforced Paper

SAMPLES of new waterproof building paper are being distributed to show the actual composition of the product. The paper consists of two layers of Asphaltum, two layers of Java Rope Sisal fibres, laid longitudinally and latitudinally, and two layers of tough No. 1 Kraft. The name of the paper is Sisalkraft and is made by the American Reenforced Paper Co., Attleboro, Mass.

It is tough and waterproof as the sample shows. The fibre reinforcing eliminates every possibility of the paper being easily torn as it is being put in place and the Asphaltum, forming an almost integral part of the product, protects the structure from the elements. As a building paper and for temporary protective use it combines a number of worth-while qualifications. For winter building, in particular, Sisalkraft should find a productive field. Covering openings before sash are hung requires a tough, "punetureproof" paper.

Samples are being sent on request and show exact composition of Sisalkraft.

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Build and Sell Homes In the Suburbs Now

—Don't Wait for Sewers

"Out to the suburbs," is now the nation-wide cry. The city dwellers want plenty of lawn, green grass, garden, orchard, sunshine, and blue sky. Folks are tired of living where they daily toil for their bread and butter.

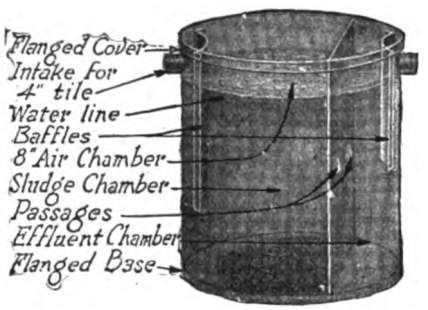
People realize that is is not necessary to live in the city nowadays just for the sake of city comforts and conveniences. Modern homes with sanitary plumbing are now easily procured anywhere. The problem of sewage disposal is perfectly solved with the safe—modern, economical



San Equip Septic Tanks

for all unsewered districts. Don't let lack of sewers worry *you.*

San Equip Septic Tanks follow U. S. Public Healt'i Service design. Thousands are in use. No failures. Fully guaranteed. Easily installed.



Write for Our Free Plan Sheets

Sell San Equip Septics with the lot or use our free plan sheets to help you sell.

Our advertising is telling more than half your prospective home buyers about the San Equip idea of sewage disposal.

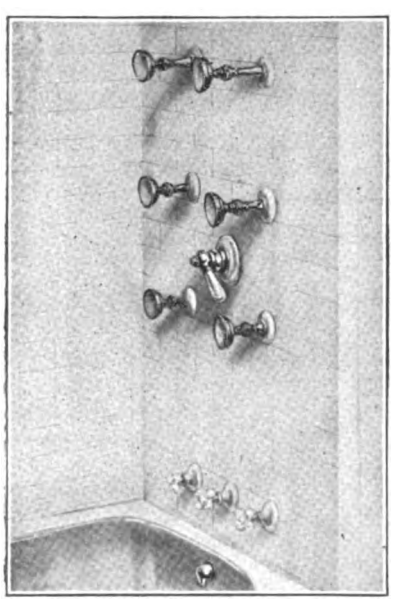
San Equip Septic Tanks are rust-proofed copperoid iron tanks—correct design—water tight—unbreakable—ready to conpect.

Look one over at our risk. Prompt shipment from warehouse near you.

CHEMICAL TOILET CORPORATION

910-916 FREE STREET, SYRACUSE, N. Y.

The instant you turn on the KENNEY SHOWER your prospect sees a mental picture of a tingling, exhilarating, invigorating, delightful bath without overhead smothering deluge and cold, clammy curtains.



CONGRESS CONCEALED MODEL
with Temporator

A pretentious fixture designed for installation over end of tub or in stall. Temporator has but one wearing part, which is guaranteed for five years.

Suppose It Does Add 1/10th of 1% to the Cost! It Adds 10% to the Value!



Any difference in cost between the modern, curtainless KENNEY BODY NEEDLE SHOWER and the ordinary single-head shower, is too slight to discuss. But the VALUE it adds—that's a different story!

We doubt if there's a builder who wouldn't say "Yes" to a prospective buyer who told him he would buy at the builder's price, when a KENNEY SHOWER is installed. It's a small enough commission to pay to clinch the sale.

Helping to rent and sell is what KENNEY SHOWERS are doing the country over. They add just the impetus needed to bring the prospect from doubt to desire. Their uniqueness, thoro effectiveness, and the curtainless feature tug on the prospect's imagination and swing him over to the dotted line.

That's why any slight difference in price may be written off cost and charged to commission!

Certainly every architect and builder should have full details. For complete information—

THE KENNEY-CUTTING PRODUCTS CO.
507 FIFTH AVE., NEW YORK
Dept. BA.



Clip the Coupon

THE KENNEY-CUTTING PRODUCTS CORP.,
507 5th Ave., N. Y.
Dept. BA

Please send me information on KENNEY BODY NEEDLE SHOWERS for

☐ Residence ☐ Hotel
☐ Apartments ☐ Club or Institution

Name .....

Address .....

City .....

I am
☐ Architect ☐ Builder ☐ Home Builder

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What's New in Materials and Equipment

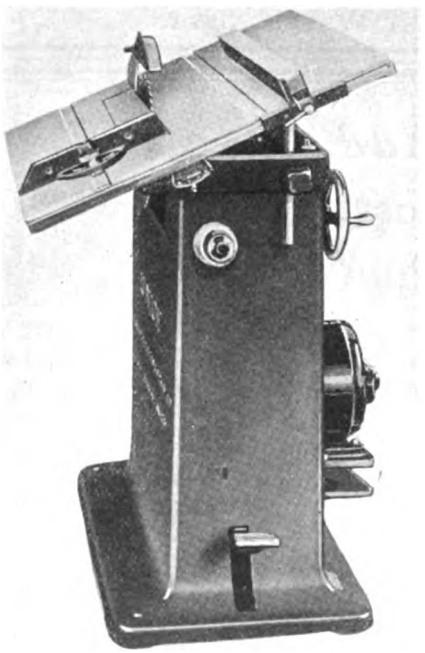
Combination Variety and Swing Saw

PROVIDING an adaptation of the swing saw and the variety tilting table saw, a combination saw has recently been introduced by Gallmeyer & Livingston Co., of Grand Rapids, Mich. The machine carries a 26 x 32" table which tilts up to 45° and which can be locked at any desired angular setting. The table is fitted with a removable plate to allow for the use of a dado head, grooving saws, etc., and carries both cross-cut and ripping gauges.

The swing saw feature makes the machine particularly suitable for cross-cutting long stock; the saw is unlocked from its fixed position and swung through the work by means of the foot treadle.

The saw arbor runs in specially selected heavy duty ball bearings and the yoke which carries the arbor and saw is hinged so that it can be raised and lowered instantly.

Machine can be furnished with ½ H.P. motor and 8" diam. saw providing for 2" depth cut, a 1 H.P. motor and 10" diam. saw for 3" cut, or a 1½ H.P. motor and 12" diam. saw for a 4" cut.



Improved Delivery Cabinet

TO provide the home owner with a convenient and safe means of receiving service deliveries of milk, groceries, etc., a new built-in cabinet has been devised and is now offered builders and home owners by the Receivador Sales Co., Grand Rapids, Mich.

Standard Receivadors consist of single units or multiples, as desired; the illustration shows a single unit to be used mainly for the receipt of milk and small packages. Each compartment has two doors, one inside and one out and is installed in the exterior or interior wall or door. An interlocking device prevents the opening of both doors at the same time making entry into the house through the cabinet impossible.



The operation of the Receivador is simple. The delivery man inserts the bottle or the package and turns the thumb bolt which automatically engages the interlock and prevents the outside door from being opened again. When the inside door has been opened and closed, the outside door is released.

Development in Portland Cement

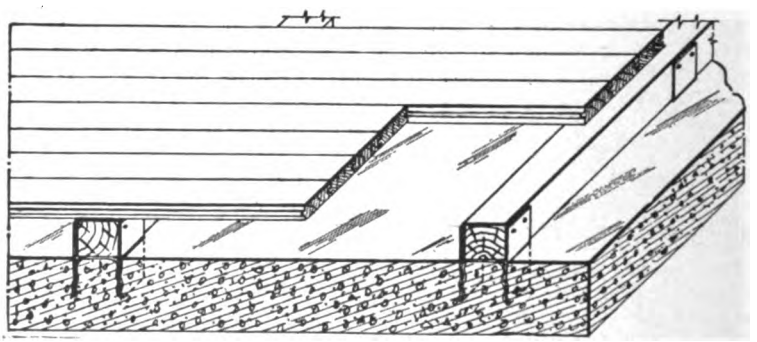
MANY contributions of scientific research to the development of the Portland cement industry have been made by the Structural Materials Research Laboratory and very recently they have given their findings publicity.

The work was done primarily for the purpose of giving a somewhat popular review of the more general features of research work on cement and concrete. It deals with historical data on the subject carrying through the development of the industry in the United States, then takes up the properties of the product, quality control and natural raw materials used. This compilation represents as thorough a one as has ever been made for public information.

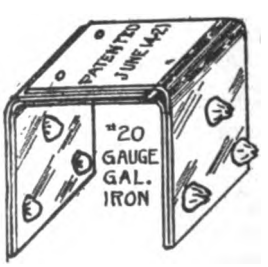
The magnitude of the enterprise makes the work more interesting to those who are associated in one way or the other with concrete in building work. The Portland Cement Association of Chicago who have joined with the Lewis Institute in Chicago in establishing the Structural Materials Research Labratory are encouraging research along this line and from time to time distribute definite reports on results obtained. A recent publication has been issued that will prove invaluable to those interested.

Wood Floor Anchorage

WOOD floors are continually demonstrating their all around practicability for every type of building. As a means of enabling the builder to lay wood floors easily and satisfactorily over concrete, the Bull Dog Floor Clip Company of Winterset, Iowa, are promoting their product as a positive means of anchorage.



The steps involved in installing the clips are very simple. First, within a half hour after the concrete floor slab has been poured and leveled, the clips are pushed into place along definite marks. Then when the slab is hard top tabs of clips are raised with a chisel. Following this, nailing strips or sleepers are placed along each row of floor clips and supported by the tabs. When they have been leveled they may be solidly nailed in place through holes punched in each tab. The mason follows the carpenter in this work and "slushes in" under and around the sleepers. Over this construction the floor is laid.



The simplicity of putting the clips in place is further brought out in the illustrations showing construction.

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Reduces Construction Cost—Speeds Up Work

Advantages for the Builder

In these days of close competitive bidding the *Barnes Sash Holder* may make the difference in cost which gets you the job.

It permits more quickly-done solid construction around windows, eliminates cords, weights, pulleys and time-taking adjusting. It saves the cost of wide trim, and reduces time and cost of handling, as a carpenter installs on the job the same as any other hardware.

The *Barnes Sash Holder* especially saves time and cost of construction when installing the small windows or the mullion type now so much in vogue.

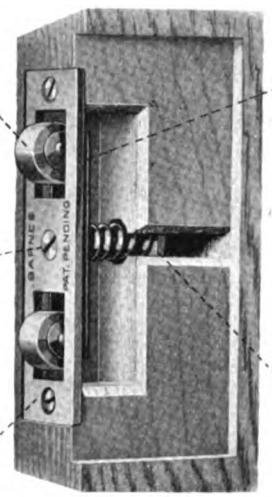
Complete information sent on request. Don't fail to investigate at once.

In spite of the various forms of window construction introduced from time to time the double-hung window is still the most widely used. In view of that fact you will welcome this truly remarkable improvement in the construction of double-hung windows . . . the—

BARNES SASH HOLDER

The *Barnes Sash Holder* is a practical, common-sense device, and like all big improvements of this kind, it is very simple . . . in construction, setting and operation. A glance at the illustration shows the *Barnes Sash Holder* and method of mortising in side of sash.

That is all there is to it!



The *Barnes Sash Holder* is not a novelty with which you are expected to experiment. It has been thoroughly tested out under every condition. The tension (see center spring and adjusting bolt) is quickly adapted to hold the sash with the same effect as the old-fashioned weight system.

Advantages for Home Owner

The *Barnes Sash Holder* reduces cost of original construction. It allows the use of narrow, more stylish and less expensive trim throughout the room.

Being made of solid brass it is proof against weather and climatic conditions, thus stopping the usual binding and squeaking. The usual annoyance and after-expense of replacing broken cords is eliminated.

The solid construction around windows excludes cold air and dust, resulting in a warmer, cleaner house and more durable construction.

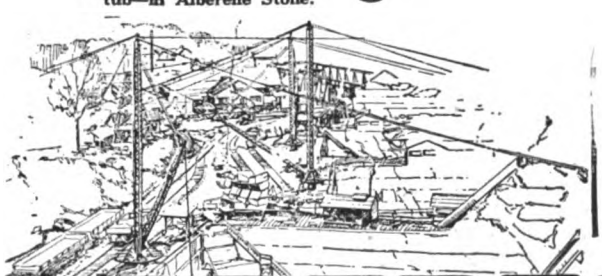
Write for complete information. Desirable territory available for representatives.

BARNES LOCK & SASH HOLDER COMPANY, 1830 Tribune Tower, Chicago, Ill.

TIME-PROOF TUBS AND SINKS



A combination unit—sink and tub—in Alberene Stone.



These fixtures for laundry and kitchen are mighty hard-worked household necessities, and you want them to stand up long and well.

Put in tubs and sinks of Alberene Stone—Nature's age-old material right from the quarry—and you'll have fixtures that will last as long as the building they're in.

They're very moderate in price—they're non-absorbent, sanitary and easily kept clean—they will not chip or flake or scale off, leaving rough unsightly spots. And their light gray color harmonizes with everything.

Write for the Alberene Style Book describing over 40 standard types in all sizes.

ALBERENE STONE COMPANY
153 WEST 23rd STREET, NEW YORK

Baltimore, Boston, Buffalo, Chicago, Cleveland, Newark, Philadelphia, Pittsburgh, Richmond, St. Louis

ALBERENE STONE

QUARRIED FOR OVER 40 YEARS — FOR LIFETIME SERVICE — NO ARTIFICIAL SUBSTITUTES

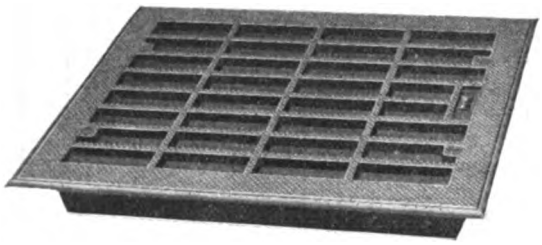
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What's New in Materials and Equipment

A New Cobble Register Face

TO sum up the features of the new T and B cast cobble register face, it may be briefly stated that attention of the manufacturer's, Tuttle & Bailey Mfg. Co., 441 Lexington Ave., New York, has been paid to five items of importance. Primarily, the standard finish for this new product is Tanbo Antique. Then its cobble surface gives a grip to the shoe and does away with dangers of slipping. A rolled edge leaves no projections along the floor and, in addition, gives a finish.

There is no question of satisfactory capacity as the new Cobble Face provides unusually large, free openings. As



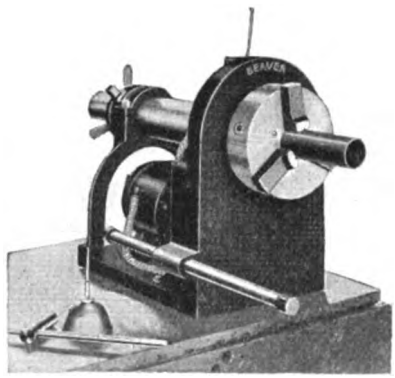
a fifth feature of importance to the builder who must sell his customer, a small number of Tanbo Finished registers may be carried in stock. The Antique finish is neutral and may be used in conjunction with practically any room interior. These faces may be used on T & B all steel or cast iron bodies.

To be used in connection with Cobble Registers there have been developed by the same company cold air faces of several sizes. The idea has been to produce these faces to match in every way the finish and appearance of the registers. They have the same rolled edge and Tanbo Antique Finish. The usual guarantee against breakage goes with these new Cobble Faces.

A Portable Electric Machine

NO. 44 is the name of a new portable electric machine developed by The Borden Co., of Warren, O., for regularly cutting and threading ¼ to 2 inch pipe, using any type or kind of hand operated die stocks or pipe cutters. A universal sliding extension shaft is furnished, however, to cut and thread up to 6 inch pipe, inclusive, using geared die stocks and cutters.

The operation of No. 44 Beaver Power Drive is simple. Pipe is inserted in machine and rigidly held by a Universal chuck. Die stock or pipe cutter is placed on the pipe as when cutting or threading by hand. Handle of tool rests on a sliding bar at side of machine. When current is turned on pipe revolves while tool remains at rest.



No. 44 Beaver is easily portable, weighing only 230 pounds. Regular equipment includes a ½ H.P. heavy duty, 110-220 volt, A. C. motor, operated from the ordinary lamp socket. Special motor equipment is available for localities where standard equipment is not suited.

Successful Liquid Waterproofing

PERMANTITE Liquid Waterproofing is a thin, cloudy liquid to be added to the gauging water for concrete and cement mortar to render the resultant mass impervious to water. It is manufactured by Sommers & Co., Ltd., 342 Madison Avenue, New York City.

This liquid slightly accelerates the setting, hardens and densifies the mass. By the action of these results the imperviousness is increased. In addition, Permantite Liquid Waterproofing lubricates the mass, allowing concrete to be placed easily and mortar easily spread and trowelled. Moreover, it lowers the freezing point of water and makes concreting in cold weather safer.

The liquid does not effect color or texture of cement combinations and may be used with safety with mineral color.

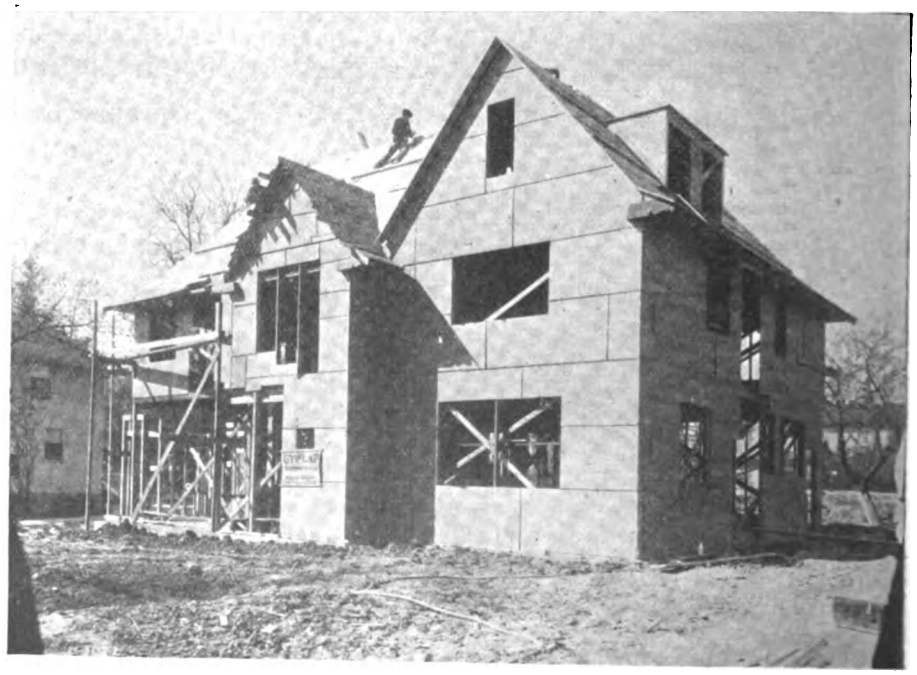
This latter is particularly important where decorative effects are desired by the builder.

Test Coats for Sheathing

EXACT data on cost of sheathing with Gyp-Lap, the product of United States Gypsum Co., 205 West Monroe St., Chicago, have been gathered by the company for the information of builders. Tests were made on actual construction projects and estimated savings calculated.

On the job illustrated here, the waste of gypsum board was 1 per cent. according to the company's fingers. The total estimated saving was over one hundred dollars. Architect on this building, erected in Glencoe, Ill., was Ralph E. Stoetzel of Chicago, General contractors were Cadenhead Co., also of Chicago. In this case gypsum sheathing was applied as a backing for brick veneer. Cost of house $50,000.

When Gyp-Lap was first offered to the industry last fall it was supplied ⅜ inch thick. Since then, changes include an increase in thickness to ½ inch and a different waterproof coating. To prevent wind-infiltration, this gypsum board is made with grooved edges.



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MR. FULLER GLOOM



MR. FULLER PEP

Which of these two men do you aim to be?

Mr. Fuller Gloom says winter is coming and work is slack—Mr. Fuller Pep says winter time is remodeling time—he gets the business with Upson Board

HOW much can you increase your earnings with Upson Board?

Well, honestly, that depends on you.

"By showing Upson Fibre-Tile samples to my customers during the past season I have secured two remodeling jobs of bathroom and kitchen," writes Mr. Roderick L. Rose of Lynn, Massachusetts.

"I have used Upson Board for many years and have used many thousand feet every year," writes Mr. John L. Lewis of Binghamton, New York.

"I built an apartment house last winter in Florida and used Upson Board throughout," testified Eugene C. Gale of North Stratford, N. H.

"I used it in show windows," says R. L. Crissman, of Kittanning, Pa.

And so it goes. Everywhere the Fuller Peps are increasing their earnings with Upson Board. Only the Fuller Glooms are standing still.

Why not get in step with the times right now? If you work alone, here is a chance to keep busy. If you employ carpenters here is a way to hold your organization together.

Clip the coupon on this page. Mail it now—today. The plan puts you under no obligation whatever.

Mail this coupon today!

THE
UPSON CO.
1106 Upson Point,
Lockport, N. Y.

Send me your Sure-Fire Plan for getting more Upson Board work this winter.

NAME.....

ADDRESS.....

TOWN.....STATE.....

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Ask your lumber dealer about the new Upson Blue Print Service. Or write us for Blue Print, describing the room you plan to re-model. Enclose ten cents.



Can you read the handwriting on the walls?

Look at the walls and ceilings in your town. Everywhere, cracked and ugly plaster offers you an opportunity to make more money this winter.

WHAT can *you* do to keep busy practically *every day* this winter?

Well, here is one simple plan.

Write us for our Sure-Fire Plan to line up the repair and remodeling business with Upson Board. Mail the coupon on the opposite page—send us a post card—write us a letter.

Such a request puts you under no obligation whatever. It simply says to us: "Show me!"

Honestly, if you could open our mail and see the hundreds of letters from contractors and builders everywhere who are using Upson Board, you would not delay a minute. Read what just a few of them say:

"We swear by Upson Board"—*John W. Garrett, builder of Artesia, New Mexico.*

"I have just finished two rooms with Upson Board"—*R. C. Knowlton, of Arkansas.* "My own house is finished with Upson Board and we like it fine—I have used more during the past year than ever before"—*L. W. Purcell, Shamrock, Texas.*

Do you want to get the repair business in your community—as these men are getting it in theirs? Do you want to know more about the many uses of Upson Board? Do you want to learn about Upson Self-Clinching Fasteners—a patented Upson invention that enables you to build Upson interiors in the very finest homes?

Then write us for our Sure-Fire Plan today. Do it now—before you forget.

Upson Board is different!

Resists heat and cold

Laboratory tests by certified engineers prove Upson Board a splendid non-conductor of heat and cold—cool in summer and warm in winter.

Resists jars and blows

When weights were dropped on various wall materials, Upson Board withstood an impact of from 40 to 70% more than other fibre wallboards, and nearly 150% more than plaster-filled boards twice as thick.

Resists moisture

Immersed in water, Upson Board gained only ½ ounce to the square foot, whereas a sample of gypsum-filled board gained nearly ½ pound to the square foot. Other wallboards absorbed nearly twice as much water as Upson Board.

Resists fire

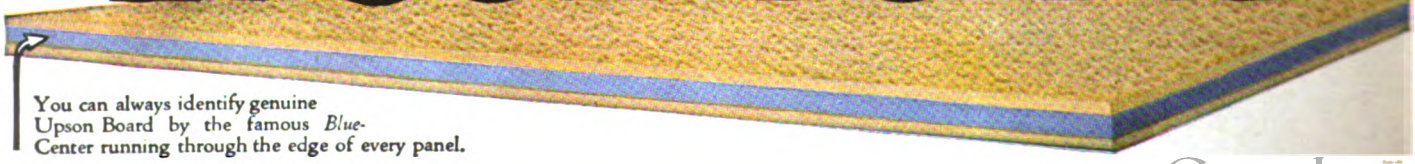
Dozens of letters in our files prove that Upson Board offers an effective barrier against fire. It chars rather than burns.

Upson Board feels, looks and works like lumber

THE UPSON COMPANY, 1106 UPSON POINT, LOCKPORT, N. Y.

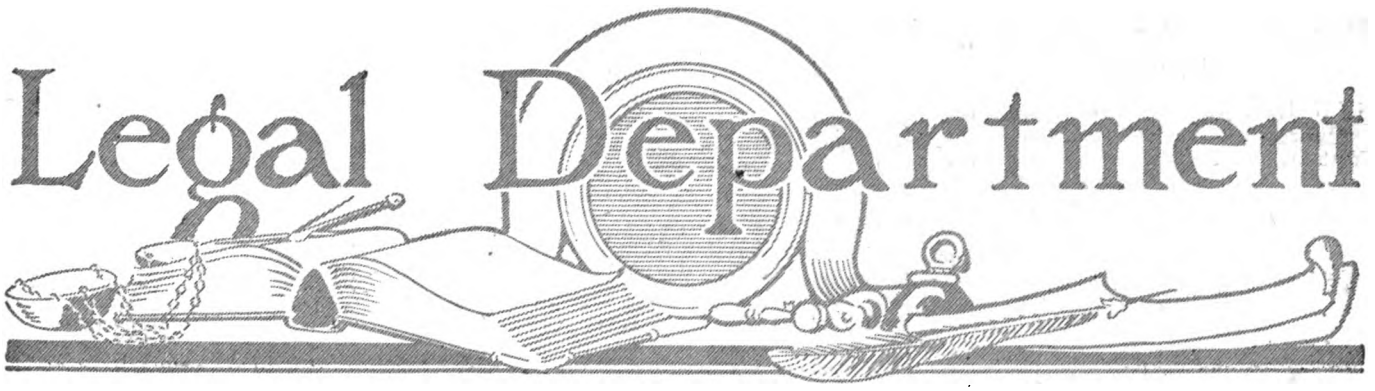
UPSON BOARD

PROCESSED



You can always identify genuine Upson Board by the famous *Blue-Center* running through the edge of every panel.

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More on Progress Payments

By A. L. H. Street, Legal Editor, who is an expert on builders' problems. To enlist his aid send in the facts of your case. This free service is a feature carried for the benefit of our readers.

A NEW YORK engineer, about to become a contracting builder, asks if "it is customary to make payments to sub-contractors as their work progresses. He does not like this practice as it "tends to make the subcontractors lax in thoroughly completing their contracts." And we are asked as to whether or not it is customary and advisable to have legal assistance in making sub contract or whether the signature of the sub-contractor before a notary public on the specifications is sufficient.

It seems to be almost universally customary to provide for progress payments to subcontractors. We assume that the practice follows very closely that under which an owner makes progress payments to the general contractor, and the same reasons which make it fair for the owner to make percentage payments monthly or at other stated periods, applies to subcontractors whose relationship is similar to that of the owner to the general contractor.

Ordinarily, the payments made during progress of the work are not sufficient to offer an incentive to the contractor or subcontractors to abandon the job, since they cover but 85% or 90% of labor and material already furnished. It would be unduly burdensome for a contractor or subcontractor to be put off for payment until completion of the work. And it would probably prove expensive to the owner or principal contractor, through decrease in competition for the work. Furthermore, it would be a dangerous risk for the contractor, as against the owner, and the subcontractor, as against the contractor, for it may take a lawsuit to collect the whole price of a job after it is completed. Many a contractor or subcontractor is made a bankrupt by following the practice of trusting to the owner to pay promptly on completion.

As to assistance in forming contracts, a newcomer in the building field should have the assistance either of an experienced builder or of an attorney experienced in building contracts—but better the assistance of an experienced builder than an attorney who has had little or no experience in that line.

After a builder has been "through the the mill" a few times, he can safely trust himself in handling routine contracts. New questions can be referred to counsel or a builder as they arise.

But every builder needs to be "broken in" at the beginning of his career on such matters as the importance of specifying times for payments, guarding against liability for delays caused by strikes, inability to secure materials, etc. A careful study of a few typical sets of well-prepared contract documents ought to make the builder a fairly dependable self-counsellor as to what ought to be inserted in contracts.

Compensation Acts

WHAT the Utah Supreme Court decided in a rather recent case (Anderson vs. Last Chance Ranch Company, 228 Pacific Reporter, 184) is in line with what courts in other states have decided. It was held that, under the local workmen's compensation act, a carpenter, or carpenter's helper, engaged in building a dwelling house on a ranch, to be occupied by the foreman or manager of the ranch, was not engaged in the usual course of the ranch company's business so as to entitle him to an award under the act on account of injury sustained in the course of such employment. In disposing of the case, the court said:

"The Commission did not find, and under the evidence could not have found, that the defendant Ranch Company was also engaged in the business, trade, or occupation of constructing buildings. All of the evidence and inferences logically deducible therefrom show conclusively that the building was being constructed as a residence for the foreman or manager of the ranch and his family, and that portions of the building were being actually used as such by him at the time of the injury complained of. There is not a syllable of evidence tending to show that the Ranch Company was engaged in the construction of buildings as an independent business, trade, or occupation. These considerations irresistibly lead to the conclusion that the findings of the Commission were right. . . . .

"The principal case (Uphoff v. Ind. Board of Ill., supra), is of sufficient importance to justify a brief review. Uphoff was a farmer and employed a carpenter to build a corncrib. The business of farming, the same as here, was not within the Industrial Act. We quote the following excerpt from the syllabus at page 1 (Ann. Cas. 1917D):

"'Section 5 defines an employee as every person in the service of another under any contract of hire, but not including any person whose employment is but casual, or is not engaged in the usual course of the trade, business, profession, or occupation of his employer. A farmer engaged a carpenter to build a corncrib, and the carpenter was injured by a metal splinter which flew off his hammer. The carpenter was engaged for no particular time, but it appeared that he was to continue work until the building was fully completed. It is held that, as the farmer was not engaged in the business or occupation of building, and as the construction of the corncrib could not be classed as an enterprise which is an undertaking or hazard, nor could it be considered as an extrahazardous business, the statute is not applicable the farmer not having elected to come within its provisions, which did not include the occupation of farming.'"

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Preserving Builders' Lien Rights

"IN 1920, we built two farm houses for the same farmer," writes a North Dakota firm of contractors. "The houses were on different pieces of land, about one and one-half miles apart. When we had completed the job, the farmer could not pay. We filed a lien on both houses, under a single lien statement. We furnished labor only and our claim amounts to $1,800. We took his notes, two for $900 each, not as a settlement, but as an acknowledgment of his indebtedness. One of the houses was remodeled and the other was a new one. When we started foreclosure proceedings, the farmer's banker objected on the ground that we had not shown separate statements, setting forth the amount each house cost; and on the further ground that the farmer settled by note. What are our rights?"

It is always best to file separate lien statements, where there is a separable basis for stating the amounts due, although the work be done under a single contract. And, in most cases, it will probably be found to be legally necessary that separate statements be filed. The law of this phase of the case is concisely stated by a standard legal authority as follows:

"In some states a single general lien may be filed against all the property for which labor and materials have been furnished *under a single contract* notwithstanding the improvements are made on separate lots; but in other states where the buildings or improvements are upon separate lots or tracts of land it is not permissible to file a single claim agninst all of the property, but a separate claim must be filed against each piece of property for the work done thereon or the materials furnished therefor, even though all the property belongs to the same owner and all the work was done or all the materials furnished pursuant to one general contract." 27 Cyc. 128.

Apparently, the North Dakota Supreme Court has aligned itself with those courts which hold that under local lien laws a lien cannot be presented against separate tracts of property, as in the case presented to us, under a single lien statement. See the case of Lumber Company vs. Trygstad, 134 Northwestern Reporter, 714. However, a definite opinion on this subject, to fit the specific case, should be sought from counsel in charge of the case, since it involves a careful and special consideration of the statutes of North Dagota and the decisions of the Supreme Court of that state.

On the second phase presented to us—the question whether acceptance of a note waives the lien right—the following appeared to be an accurate reflection of what the courts have decided:

"It is well established as a general rule that a mechanic's lien claimant does not waive or forfeit his right to a lien by taking a promissory note of the owner unless the parties have agreed that the or the contractor for what is due to him, note shall have the effect of extinguishing the lien or such was their intention; but the only effect of such a note is to suspend the right to enforce the lien until its maturity.

"The rule that the taking of the note is not a waiver of the lien *applies only where the note is payable within the time allowed by statute for commencing proceedings to enforce the lien*, and if the note does not mature until after the expiration of that time the lien is lost." (27 Cyc. 269-270.)

The law, applicable in North Dakota appears to be expressed in the holding by the Supreme Court of that state in the case of Sleeper vs. Elliott, 162 Northwestern Reporter, 303, that "The giving of a note for the amount due by the debtor does not of itself waive and set aside a mechanic's lien. Where such note matures pending the time during which such lien could have been enforced, no waiver will be presumed in the absence of an express agreement, and the note will be deemed merely to be a liquidation of the debt. The giving of a note in liquidation of a debt for labor and materials furnished, and which matures during the time in which a mechanic's lien may be enforced, tolls the running of the statute of limitations, and such statute will not begin to run upon or against the lien until the maturity of such note."

It would seem that the rights of the contractors in this case are governed by the holdings of the North Dakota Supreme Court in the two cases cited.

Following Specifications

"WE have a job which specifies for oak floors as follows: The floor of the Living Room, Dining Room, Foyer, Coat Closet, and Passage to Kitchen, shall be 7/8"x2" safe, first quality, plain, white oak T and G hollow backed," writes a New Jersey builder. "Under this we supplied a grade of flooring commonly known as 'select plain white oak' of the thickness and width specified. Please advise us whether, in your opinion, we are within the meaning of the specifications?"

As we understand the question, it resolves itself into an inquiry whether a specification of "first quality" oak is met by supplying "select" oak. And, under well-established legal principles, we believe that an answer to the question depends upon whether the oak furnished was "first quality" oak. In our opinion, the specification is too clear to admit dispute that it reqnires the best grade of oak flooring. Therefore, whether the builders have conformed to the specification depends upon whether or not they have furnished flooring of that grade.

Legal Notice

Statement of the Ownership, Management, Circulation, Etc., Required by the Act of Congress of August 24, 1912.

Of Building Age and National Builder, published monthly at New York, N. Y., for October 1, 1925.

State of New York } ss.:
County of New York }

Before me, a Notary Public, in and for the State and County aforesaid, personally appeared Charles G. Peker, who, having been duly sworn according to law, deposes and says that he is the editor of the BUILDING AGE AND NATIONAL BUILDER, and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily paper the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the act of August 24, 1912, embodied in section 411, Postal Laws and Regulations to wit:

1. That the names and addresses of the publisher, editor, managing editor and business managers are:

Publisher—Building Age Publishing Corporation, 239 West 39th Street, New York.
Editor—Charles G. Peker, 239 West 39th Street, New York.
Managing Editor—Ernest McCullough, 239 West 39th Street, New York.
Business Manager—David Meyers, 239 West 39th Street, New York.

2. That the owner is:

Building Age Publishing Corporation, 239 West 39th Street, New York.

That the stockholders owning or holding one per cent or more of the total amount of stock of Building Age Publishing Corporation are as follows:

B. A. & C. P. Holding Corporation, Times Building, New York.

That the stockholders owning or holding one per cent or more of the total stock of B. A. & C. P. Holding Corporation are as follows:

Frank Meyers, 239 West 39th Street, New York City; David Meyers, 239 West 39th Street, New York City; W. H. Parsons, 239 West 39th Street, New York City; Walter A. Bardgett, 239 West 39th Street, New York City; M. & S. Meyers, Times Building, New York City; George Meyers, 1196 First Avenue, New York City; Michael Miller, 794 St. Nicholas Avenue, New York City; S. Cowen, 20 East 97th Street, New York City; David L. Short, Columbus Avenue and Hancock Street, Philadelphia, Pa.; G. Friedman, 627 Broadway, New York City; A. Cowen & Son, 34 West 25th Street, New York City; John J. Robbins, 317 West 93rd Street, New York City; Charles G. Peker, 239 West 39th Street, New York City.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages or other securities are:

Architectural and Building Press, 243 West 39th Street, New York.

Trade Press Publishing Corporation, 542 South Dearborn Street, Chicago.

Permanent Builder, Inc., 133 West Washington Street, Chicago.

4. That the two paragraphs next above, giving the names of the owners, stockholders and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company, but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association or corporation has any interest direct or indirect in the said stock, honds, or other securities than as so stated by him.

CHARLES G. PEKER.

Sworn to and subscribed before me this 13th day of October, 1925.

[Seal] CARL A. POWERS, Notary Public, Queens County. Certificate filed in New York County.

My commission expires March 30, 1927.

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KOSMOS PORTLAND CEMENT · KOSMORTAR A MASON'S CEMENT EASY TO SPREAD



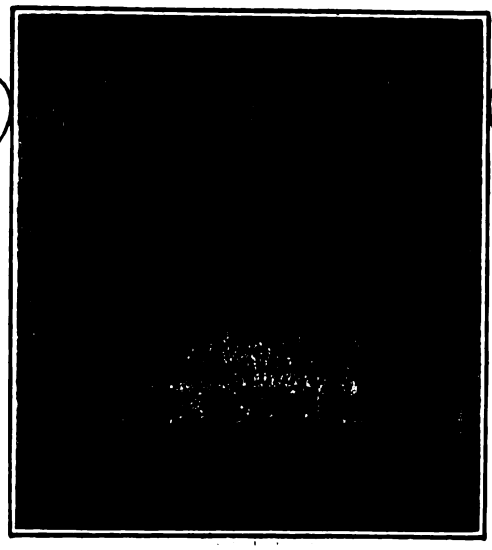
Tested Like Brick

WHY use materials that are made to specifications and laboratory-tested for every other part of the building, then use a crudely-mixed, uncertain mortar? Use *Kosmortar—The Ideal Cement for Masonry.* Every batch tested for strength, durability and workability. No lime or slaking. No waiting.

A Product of
Kosmos Portland Cement Co.
Incorporated
Sales Offices: Louisville, Ky.
Mill. Kosmosdale, Ky.



KOSMORTAR
A MASON'S CEMENT



Cheerful Heat Without Smoke

THE open fireplace comes into its own with the installation of a Sykes Dome Damper. All the glow and warmth, all the hospitable cheer, with none of the smoke and grime.

A turn of the hand regulates the damper as simply as the turning on of a light, to meet any variations of wind or weather.

Sykes Dome Dampers are shipped assembled ready for installation, after each one has been individually fitted and tested in our factory, which assures you easy and perfect operation.

Use the attached coupon for practical information on proper fireplace and chimney construction and details on Sykes Dome Dampers and other fireplace accessories.

Sykes Metal Lath Company

Better Building Specialties

Niles, Ohio

Sykes Metal Lath Company,
Niles, Ohio.

Please send further fireplace information to:

.....

.....

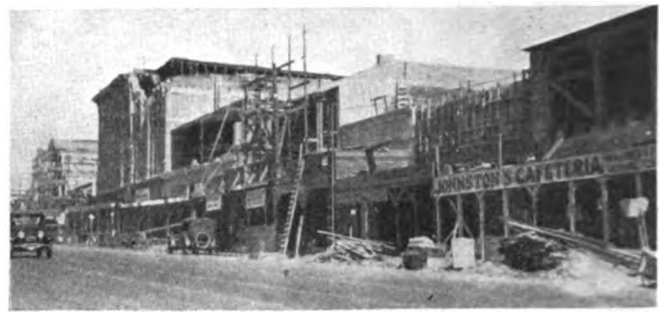
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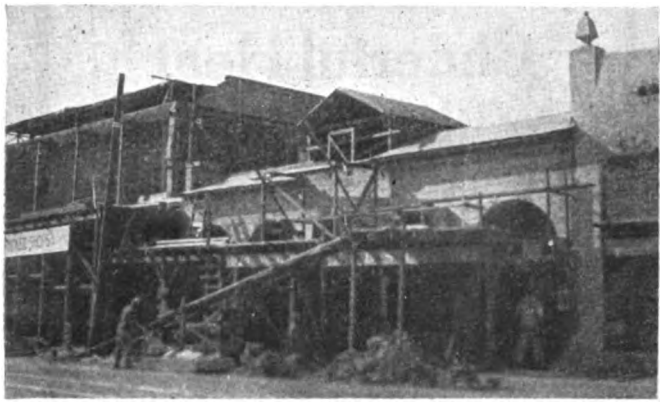
(*Continued from page* 81)

have been redesigned in Spanish or Mexican style. Each of these buildings while different from its brother buildings, carries along the general theme of Spanish balconies, arcades, archways, etc.

Such few of the buildings as have been completely rebuilt so far show how successful this new type of architecture will be. Look at the picture of the Red Cross Drug Store and the Western Union Telegraph office. Each of these buildings has a typical Spanish balcony. In the drug store the balcony is flood-lighted at night. It is very interesting, too, to note the way in which the electric sign has been incorporated in the balcony as an integral part of it. This treatment of the electric sign could, unquestionably, be adopted with success by other retail establishments with equally good effects. It makes the sign appear as though it actually belonged instead of simply being something that was hung on as an after-thought.



THIS entire block is being rebuilt and the new construction will be of the sturdiest, thoroughly reinforced. No more "shakes" are anticipated for a century, yet Santa Barbara builders have learned a lasting lesson

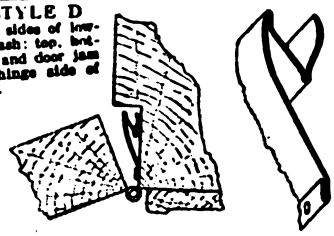


DOING business among the ruins is not an uncommon sight in Santa Barbara. Trade is very much alive because the town is filled with visitors and workmen imported for the rebuilding of this shaken city

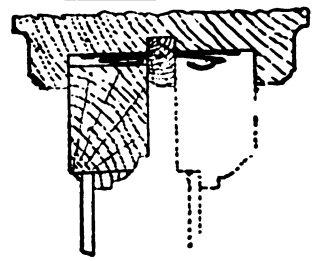
Another interesting building is that occupied by the Bitterly Company jewelry store. Here, too, there is a balcony which is flood-lighted at night with delightful results. Notice, too, the "bell tower" at the corner, similar to the bell towers found at the old California mission. But instead of bells, there are advertising signs in the shape of bells.

While rebuilding is going on, business houses in the central district are doing business "as usual." In many instances stores are operating under temporary roofs, with fronts out and side walls cracked. Through mazes of scaffolding, customers tread their way to the inside. But business is good, thanks to the thousands of sightseers that pour into the city each week and thanks to the hundreds of workmen who have been brought to the city.

STYLE D
For sides of lower sash: top, bottom and door jam on hinge side of door.

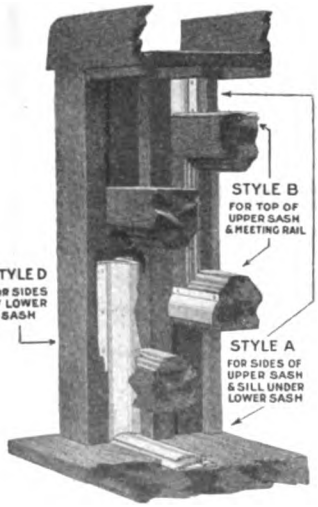


D D C
DENNIS DOUBLE CUSHION
METAL WEATHERSTRIP



TRIPLE SPRING ACTION ASSURES PERMANENT SEAL

See the patented "S" shape that provides the triple spring action available only with D D C weatherstrip. It assures a snug weather proof seal that conforms to all warping, shrinkage and expansion of sash or door. Made of Spring Bronze that lasts indefinitely, it will wear forever.





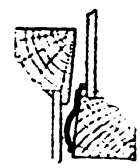
STYLE A
Used on sides, upper sash, top and bottom of window.



NO GROOVING—EASILY INSTALLED OLD OR NEW BUILDINGS

D D C weatherstrip saves labor and time because it can be applied without removing sash or grooving. Just cut to any length with ordinary shears, insert in place and fasten with tacks.

Will not sing, hum or vibrate. Positively seals all crevices against dirt and drafts, and saves about 25% coal bill. Costs only about $1.50 to $2.00 for average window or door. Endorsed by Contractors, Builders, Architects and Owners.



STYLE B
Used on meeting rail of windows.

Send Coupon for Free Samples and Sales Plan.

Manufactured by

W. J. Dennis & Company

W. J. Dennis & Company, 2120 W. Lake Street, Chicago, Illinois.

Please send without obligation a sample of D. D. C. Weatherstrip, literature, and sales plan.

Name ..... Address .....

My Hardware Dealer Is.....

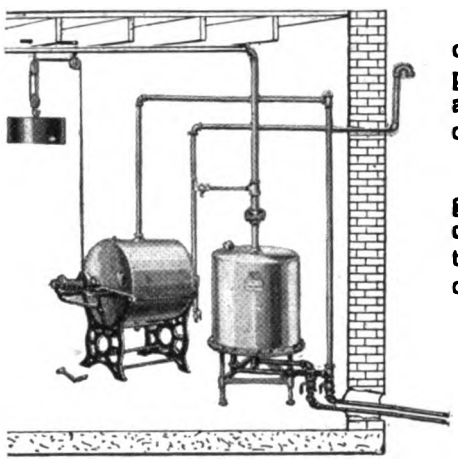
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SUBURBAN
COMPLETE
GAS
SERVICE

SAFE—CLEAN
ECONOMICAL

For the Suburban Homes You Build

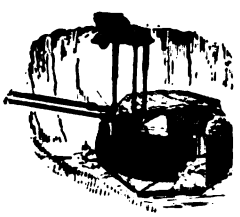
You can put all the comforts which gas furnishes for cooking, heating and lighting in every suburban home, school, or hospital you build, where city or natural gas is not available, by the installation of a Detroit Combination Gas Machine.



Here is shown the Weight-Drive Detroit Combination Gas Machine. Where electricity is available, electrically operated machines can be supplied.

This complete individual gas plant is compact, economical, odorless and dependable. It is built on tested engineering principles which guarantee absolute safety and satisfaction, and produces over 800 heat units per cubic foot, of the finest quality gas obtainable.

The installation cost is low; the operating expense is no greater than the cheapest City gas; there is no maintenance cost. Operation is automatic, requiring little or no attention; the regulator is permanently set, assuring the constant production of gas of uniform quality.



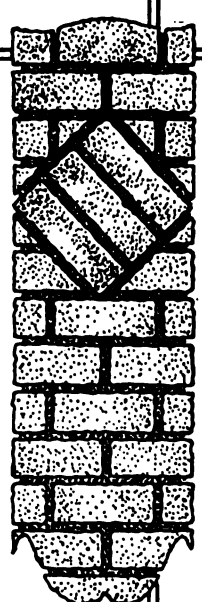
In a class by itself for efficiency, you can recommend the Detroit Combination Gas Machine to your customers with the knowledge that for over 50 years it has been made and sold on the merit of performance. Suburban Gas means more comfort, more efficiency, greater fuel economy, less manual labor.

Write for illustrated folder which tells the complete story.

DETROIT SUBURBAN GAS PLANT COMPANY

2153 EAST MILWAUKEE AVENUE, DETROIT, MICHIGAN

LEADERSHIP—



STANDARD for 38 years! The year in and year out uniformity of Clinton Mortar Colors has led a long list of the country's leading architects and building contractors to depend on them exclusively. They realize that the use of little known colors is an unnecessary risk of disappointment.

It means much to know that every pound, every bag, every carload of a Clinton Color is identical with a shipment of that same color used two, five or ten years ago.

Specifications, range of colors and technical information always available to architects, contractors and builders upon request. The Clinton Metallic Paint Company, 30 Clinton Road, Clinton, New York.

One-fifth of the Brickwork is Mortar!

Clinton Mortar Colors

Nature's permanent colors—Made since 1887

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Selected List of Manufacturers' Literature

For the Service of Builders, Contractors, Architects and Engineers

THE publications listed in these columns are the most important of those issued by leading manufacturers identified with the building industry. They may be had without charge, unless otherwise noted, by applying on your business stationery to BUILDING AGE AND NATIONAL BUILDER, 239 West 39th Street, New York, or the manufacturer direct, in which case kindly mention this publication. Either the titles or the numbers may be used in ordering. This list is an editorial feature maintained for the convenience of our readers. It is not a part of the advertiser's contract and BUILDING AGE AND NATIONAL BUILDER assumes no responsibility for its correctness.

(See also Alphabetical Index, page 204)

AIR TOOLS—See Tools, Air

ALUNDUM FLOORS—See Flooring Composition

ARTISTS' MATERIALS—See Drafting Materials

ABBESTOS PRODUCTS

Asbestos Shingle, Slate & Sheathing Co., Ambler, Pa.

2281. *Ambler Asbestos Shingles.* Catalog. 44 pp. Illus.

2282. *Ambler Asbestos Corrugated Roofing and Siding.* Catalog. 36 pp. Standard Purlin Spacing Tables.

2283. *Ambler Asbestos Building Lumber.* 32 pp. Illus.

2284. *Engineers' Data Sheets.* 44 pp. Illus. Specifications for Ambler roofing and siding.

Johns-Manville, Inc., 292 Madison Ave., New York.

3551. *Johns-Manville Products.* Catalog. 16 pp.

Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City N. J.

4121. *Shingles That Last.* Illus. Deals with metal and asbestos roofing.

4123. *Asbestos Roofing and Colored Asbestos Shingles.* Literature.

ASBESTOS ROOFING—See Roofing Materials

ASH DUMPS—See Dampers, etc.

ASH HOISTS—See Hoists

AXES—See Edge Tools

BAND SAWS—See Woodworking Machinery

BAR BENDERS AND CUTTERS

Koehring Co., 31st and Concordia Sts., Milwaukee, Wisc.

3711. *Koehring Bar Benders and Cutters.* Folder. 4 pp. Illus.

3712. *Koehring Booklet.* Lists complete line of products.

BATCH BOXES—See Mortar Boxes

BATHROOM ACCESSORIES—See Bathroom Fixtures

BATHROOM FIXTURES

Chemical Toilet Corp., 801-21 Free St., Syracuse, N. Y.

5641. *Sani-Equip Septic Tanks and Waterless Toilets.* Booklet. Illus. Descrices a chemical toilet for unsewered districts.

Crane Co., 836 S. Michigan Ave., Chicago.

2845. *Homes of Comfort.* 100 pp. Presents complete line.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.

3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.

Kenney-Cutting Prod. Corp., 507 5th Ave., New York.

3631. *Kenney Curtainless Shower.* Catalog A. Illus. Concerns several types of curtainless showers.

Wheeling Sanitary Mfg. Co., Wheeling, W. Va.

5041. *Descriptive Literature.* Treats of the combination bathtub.

BEDS, DOOR—See also Built-In Features

American Bed Co., 18th St. and Park Ave., St. Louis, Mo.

2071. *Out-O-Site.* 20 pp. Treating of portable, disappearing beds.

Concealed Bed Corp., 434 Garland Bldg., Chicago.

2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these concealed beds.

2772. *The Book of Beds.*

2773. *Rooms Without Walls.*

Murphy Door Bed Co., 22 W. Monroe St., Chicago.

4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments. Contains data on steel and wood cabinets, ironing boards, steel kitchens, etc.

BENCH GRINDERS—See Grinding Machinery

BITS—See Tools

BLACKBOARDS—See Slate

BLOCK MACHINERY—See Concrete Machinery

BLOWERS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.

2343. *Descriptive Literature on Blowers.* Illus.

BLOW TORCHES

Everhot Mfg. Co., Maywood, Ill.

3032. *Everhot Blow Torches.* Circular.

BLUE PRINT—See Drafting Material

New York Blue Print Paper Co., 102 Reade St., New York.

4161. *General Catalog.* Illus. Includes complete line of dratting materials, surveying instruments, rules, etc.

Peerless Blue Print Co., 341 5th Ave., New York.

4271. *Peerless Catalog.* Illus. Comprises descriptions of surveyors', builders', and draftmen's equipment.

BOILERS—See Heating Equipment

BOOKS—See also Plans

Audel & Co., Theo., 63 West 23rd St., New York.

2321. *Helping Hand Books for Mechanics, Engineers, Electricians and Builders.* 32 pp. Illus. Describes Audel Hand Books.

Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.

2711. *How to Read Blue Prints.* Booklet. Illus. Includes plans.

2713. *Building Construction.* Booklet. Descriptive Literature.

Keith Corp., 100 N. 7th St., Minneapolis, Minn.

3601. *Keith's Magazine.* Monthly. Subscription offer of $3.25 includes 278-page De Luxe edition, "Beautiful Homes."

Walker Co., Frank B., 536 Lake Shore Drive, Chicago.

4881. *How Practical Forms Increase Contractor's Profits.* Illus. Catalog. 64 pp. Describes all their books and forms.

BRACKETS—ROOFING, ETC.

Ajax Building Bracket Co., 1551 Rydal-Mount Rd., Cleveland Heights, O. (formerly Ajax Bracket & Outlet Co.).

2021. *Ajax Folding Metal Sheathing and Roofing Bracket.* Illus.

Elite Mfg. Co., Ashland, O.

3011. *Scaffold Brackets.* Catalog. Deals with application.

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.

3172. *Gabriel Folding Brackets.* Descriptive literature.

Richards-Wilcox Mfg. Co., Aurora, Ill.

4427. *Descriptive literature.* Includes prices.

Steel Scaffolding Co., Evansville, Ind.

4651. *Catalog C.* Illus. 16 pp. Describes *Trouble-Saver Steel Scaffolding*, giving prices.

BRANDING IRON

Everhot Mfg. Co., Maywood, Ill.

3032. *Literature.* Describes their branding iron and blow torch.

BRICK

American Face Brick Assn., 130 N. Wells St., Chicago.

2111. *The Story of Brick.* 5 pp. Illus. History and requirements.

2112. *A Manual of Facebrick Construction.* 116 pp. Illus. Types of facebrick for chimneys, etc. Price, $1.00.

2113. *The Home of Beauty.* 72 pp. Illus. 50 prize designs for small brick houses. Price, 50 cents.

2114. *Architectural Details in Brick Work.* 3 series, totalling 124 prints of brick work details. Price, $1.50 per set.

2115. *English Precedent for Modern Brick Work.* 100 pp. Illus. Plates and drawings of Tudor and Gothic. Price, $2.00.

2117. *Bungalow and Small House Plans.* 4 booklets. 50 pp. Illus Contains 98 reversible designs. (1) 3-4 rooms; (2) 5 rooms; (3) 6 rooms; (4) 7-8 rooms. 35 cents. $1.00 per set.

Common Brick Manufacturers' Assn., 2121 Guarantee Title Bldg., Cleveland, O.

2761. *The Home You Can Afford.* 64 pp. Illus. Contains 62 designs with floor plans of houses and bungalows. 10 cents.

2762. *Your Next Home.* 64 pp. Illus. Contains 60 designs with floor plans of brick houses and bungalows. Price, 10 cents.

2763. *Farm Homes of Brick.* 24 pp. Illus. Offers 10 selected designs with floor plans of farm houses. Price, 5 cents.

2764. *Brick—How to Build and Estimate.* 72 pp. Illus. Includes brick construction data and estimating tables. 25 cents.

2765. *Skintled Brickwork.* 15 pp. Illus. Shows 7 selected houses by Chicago architects. Price, 15 cents.

2766. *Brick Silos and How to Build Them.* 40 pp. 10 cents.

Fiske & Co., Inc., 115 Federal St., Boston; New York and Watsontown, Pa.

5691. *Fisklock and other Face Brick.* Apppeals to builders from popularity angle.

Hocking Valley Products Co., Logan, O.

3401. *Face Brick.* Descriptive literature.

Riesner, Benjamin, 260 E 78th St., New York.

5791. *Riesner Ventilating Brick.* Folder. Illus. Describes standard size iron brick for ventilating.

BRIDGING—See also Metals and Metal Specialties

General Fireproofing Co., Youngstown, O.

32213. *GF Metal Building Specialties.* Folder, A. I. A. File No. 16E2. 20 pp. Illus. Includes information on bridging, etc.

BUILDING BLOCKS

Crozier-Straub, Inc., 120 W 42nd St., New York.

2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

BUILDING CONSTRUCTION

Crozier-Straub, Inc., 120 W. 42nd St., New York.

2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

General Fireproofing Co., Youngstown, O.

3221. *The Fireproofing Handbook.* 72 pp. Illus.

Milwaukee Corrugating Co., Milwaukee, Wis.

4001. *Metallic Construction for Modern Home.* 16 pp. Illus. Shows home interiors with *Milcor Stay Rib.*

Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.

4201. *Northwestern.* General Catalog. 16 pp. Illus. Covers complete line of Northwestern products.

Smith Co., T. L., Milwaukee, Wisc.

4593. *Smith Excavator and Loader.* Bulletin No. 408. Illus.

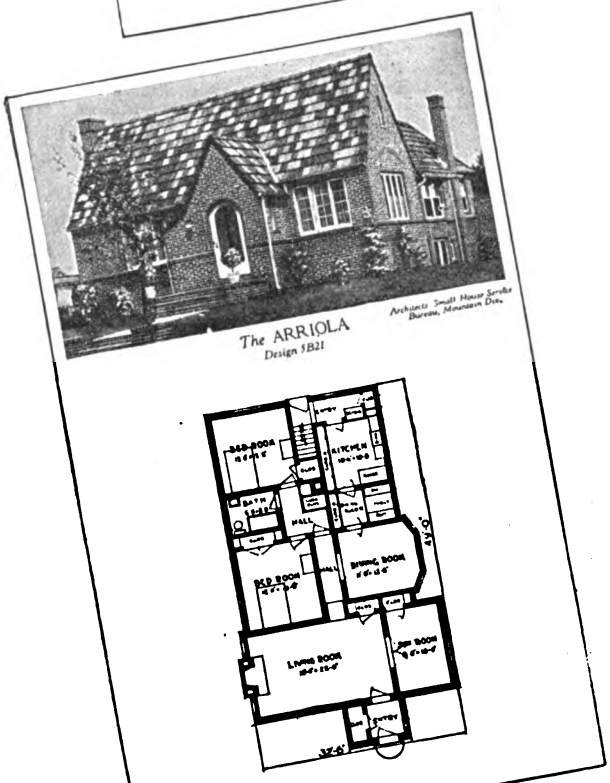
Sykes Metal Lath Co., Niles, O.

4731. *Metal Lath for All Purposes.* Illus. Booklet. 20 pp.

4732. *Catalog and Handbook.* Illus. 32 pp. Deals with metal lath.

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Typical Pages from "The Home You Can Afford."

The 100% BRICK HOME

Highest Resale Value ~ Beauty in Brick is Permanent

No Painting or Repairing ~ Almost no Depreciation

Send 75c for These Six Books

Brick homes are easiest to sell. People prefer the permanent beauty of brick—its lack of painting and repairing. They know that a brick home has highest resale value.

Feature 100% brick homes—brick foundation walls, side walls, fireplace and chimney. Send 75c for these six books—ask for the new folder "Hollow Walls of Brick." It's free.

All for Only 75 Cents

Two plan books showing 120 brick homes in picture and plan—"Your Next Home" and "The Home You Can Afford." All practical designs by prominent architects, actually built and lived in. Working drawings for each home shown as low as $10 a set.

"Brick, How to Build and Estimate" is an illustrated handbook on brick construction, giving details of wall construction, tables of materials and other useful information. (25c).

"Brick Silos and How to Build Them" is a bargain at 10c, as is "Farm Homes of Brick" at 5c. "Skintled Brickwork" shows those rough texture walls you've heard so much about. Dimension details for seven effects in this 15c book.

Free Folder on Hollow Walls

Lower cost brick hollow walls, using fewer brick and encouraging faster work, are described and pictured in a new 24-page folder free on request. Keep in step with progress in brick. Just ask for YOUR copy.

We have hundreds of requests for names of good masonry contractors. If you'd like us to refer prospective builders to you send us your name and address and a brief outline of your experience.

The Common Brick Manufacturers Association of America

2133 Guarantee Title Building
Cleveland

Chicago	Chamber of Commerce Bldg.
Denver	1735 Stout St.
Detroit, Mich.	400 U. S. Mortgage Trust Bldg.
Hartford, Conn.	226 Pearl St.
Los Angeles	342 Douglas Bldg.
Nashville, Tenn.	804 Harry Nichol Bldg.
New Orleans, La.	904 Carondelet Bldg.
New York City	1710 Grand Central Terminal Bldg.
Philadelphia	City Centre Bldg.
Portland, Ore.	906 Lewis Bldg.
Salt Lake City	301 Atlas Bldg.
San Francisco	811 Sharon Bldg.
Seattle, Wash.	524 Burke Bldg.
Springfield, Mass.	310 Tarbell-Watters Bldg.

The Common Brick Manufacturers' Association of America,
2133 Guarantee Title Building, Cleveland, Ohio.

Enclosed find.....cents. Please send me the books marked below.

"The Home You Can Afford" (10 cts.)
"Your Next Home" (10 cts.)
"Brick—How to Build and Estimate" (25 cts.)
"Farm Homes of Brick" (5 cts.)
"Brick Silos and How to Build Them" (10 cts.)
"Skintled Brickwork" (15 cts.)
FREE! 24-page folder "Hollow Walls of Brick and How to Build Them."

Name.....

Address.....

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Selected List of Manufacturers' Literature

(Continued from page 148)

Truscon Steel Co., Youngstown, O.
4791. *Truscon Floorstyle Construction.* Form D-352. 16 pp.
4792. *Truscon Standard Buildings.* Form D-398. 44 pp.
4793. *Truscon Building Products.* Illus. Form D-376. 112 pp.
4794. *Modern School Construction.* Form D-395. 16 pp.

BUILDING PAPER
American Reenforced Paper Co., Attleboro. Mass.
5851. *Sisalkraft.* Samples sent to show composition—two layers No. 1 Kraft, two layers of Asphaltum, two layers of Java sisal fibres.

Bird & Son, East Walpole, Mass.
2451. *Waterproof.* 6 pp. Illus. Describes *Neponset* building paper

Brown Company, Portland, Me.
2531. *Bermico Sheathing Paper.* Folder. Illus. Contains samples of four different weights of Bermico.

BUILT-IN FEATURES
Alberene Stone Co., 153 W. 23d St., New York.
2031. *Illustrated literature* on soapstone laundry tubs.

Concealed Bed Corp., 434 Garland Bldg., Chicago.
2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these Concealed Beds.
2772. *The Book of Beds.*
2773. *Rooms Without Walls.*

Garden City Plating & Mfg. Co., 1430 So. Talman Ave., Chicago.
3192. *Clothes Closet Plans.* Folder. Discusses convenience and capacity of closets built with *Garcy Garment Carriers.*

Herrick Refrigerator Co., Waterloo, La.
3371. *Refrigerators.* Catalog. 56 pp. Illus.

Hess Warming and Vent. Co., 1207 So Western Ave., Chicago.
3381. *Snow-White Steel Cabinets and Mirrors.* Booklet. 16 pp.

Kilmoth Products Corp., 50B Union Sq., New York.
3671. *No More Folding, Packing or Mussing.* Folder. Illus. Deals with use of built-in cedar closets.
3672. *Kilmoth.* Leaflet. 2 pp. Explains Kilmoth cedar lining.

Lupton's Sons Co., David, Philadelphia, Pa.
3847. *Catalog D.* Describes steel shelving of various types. 1 p. on partitions.

Morton Mfg. Co., 5133-43 West Lake St., Chicago.
5751. *Literature.* Illus. Includes prices, sizes, etc., on Acme steel medicine cabinets.

Murphy Door Bed Co., 22 W. Monroe St., Chicago
4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments. Contains data on steel and wood cabinet ironing boards, steel kitchens, etc.

Ohio State Stove & Mfg. Co., 666 Lake Shore Drive, Chicago.
4231. *The Kab-Range.* Catalog BA-3. Illus. Describes a combination of the *Packer All-Steel Kitchen Cabinet* and *Ranges.*

Wasmuth-Endicott Co., Snowden St., Andrews, Ind.
4941. *12-page Folder.* Features *"Kitchen Maid"* unit systems. Also another mailing piece, showing built-in kitchen apparatus.

White Steel Sanitary Furniture Co., Grand Rapids, Mich.
5341. *Literature.* Describes their "White-Steel" Medicine Cabinets and other "White-Steel" products.

CABINETS—See Built-In Features

CALCIUM CHLORIDE—See Concrete Process

CANVASS—See Roofing Materials

CARBURETORS—See Trucks, Motor Supplies

CARPENTERS' TOOLS—See Tools, Edge, also Tools

CASEMENTS—See Windows, also Windows, Metal

CASEMENT HARDWARE—See Hardware

CASTINGS, Iron, and Cast Products
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus. Covers entire line of products.

CAULKING AND GLAZING COMPOUNDS
Bird & Son, East Walpole, Mass.
2452. *The Handy Man's Helper.* 6 pp. Illus. Presents various uses for *Bird's* plastic cement.

Weatherproof Caulking Co., 756 Washington Av., No., Minneapolis, Minn.
4971. *Literature.* Gives information and prices.

CEILINGS
Lloyd, W. H. S., 105 W. 40th St., New York.
5742. *Anaglypta.* Booklet. Illus. Deals with line of friezes used as substitute for plaster relief.

CEILINGS, METAL—See Metals, etc.

CELLAR DRAINS—See Plumbing Equipment

CEMENT—Portland
Kosmos Portland Cement Co., Louisville, Ky.
3741. *For Enduring Masonry.* Folder. 8 pp. Illus. Discusses use of *Kosmortar,* a building mortar.

Lehigh Portland Cement Co., 30 E. 42nd St., New York.
3771. *Build the Castle of Your Dreams.* 32 pp. Deals with concrete home construction.
3772. *Permanent Satisfaction in Your Building.* Illus. Book. 48 pp. Treats of fire-safe farm construction.
3773. *The Lehigh Magazine.* New House monthly.

Louisville Cement Co., Louisville, Ky.
3821. *Brixment for Perfect Mortar.* Handbook. Contains data.

Pennsylvania Cement Co., 131 E. 46th St., New York.
4291. *Pennsylvania Concrete Manual.* Handbook. 48 pp. Illus. Discusses clay, reinforcing, setting time, slump test, etc.
4292. *Three Booklets.* Deal with phases of Concrete work. By Frank W. Skinner, C.E.

Portland Cement Assn., 111 W. Washington St., Chicago.
4351. *Concrete Masonry Construction.* Catalog. 32 pp. Illus. Contains consideration of approved practices.
4352. *Concrete Floors.* Booklet. 16 pp. Illus. Gives data.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4811. *Ivory Keene's Cement.* Bulletin KC1. Gives data.

CEMENT—High Temperature
Johns-Manville, Inc., 292 Madison Ave., New York.
3552. *Refractory Cements.* 16 pp. Illus. Presents facts and data.
3553. *Acrite Boiler Wall Coating.* Illus. Discusses fuel saving.

CEMENT—Magnesite

CEMENT PAINT—See Paint, Cement

CEMENT TOOLS
Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.
2011. *Abram Double Action Long-Handled Cement Finishing Tools.* 12 pp. Illus. Shows entire line.
2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.

CHIMNEY CAPS—See Ventilators, also Metals, etc.

CINDER BLOCKS—See Building Blocks

CHISELS—See Tools, Edge

CIRCULAR SAWS—See Saws

CLAMPS
Black Bros. Co., Inc., Mendota, Ill.
2472. *Black Vencer and Glue Room Equipment.* Catalog No. 11 16 pp. Illus. Covers the line of clamps, presses.
2473. *Gluing Clamps.* 24 pp. Illus.

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
29511. *Brick Clamps.* Leaflet. Illus.

Taylor, James L., Mfg. Co., Poughkeepsie, N. Y.
4751. *Catalog.* Illus. 32 pp. Lists and describes their lines of clamps; with prices
4752. *Clamp Questions.* Illus. Pamphlet. Deals with several types.
4753. *They Know.* Folder. Gives illustrations of two clamps.

CLOTH WALL COVERING—See Wall Covering

CLOTHES CLOSET FIXTURE
Garden City Plating & Mfg. Co., 1430 So. Talman Ave., Chicago.
3192. *Clothes Closet Plans.* Folder. Discusses convenience and capacity of closets built with *Garcy Garment Carriers.*

Knape & Vogt Mfg. Co., Grand Rapids, Mich.
3691. *Beautiful Clothes Closets.* Booklet. Illus.
3692. *Plans for Modern Clothes Closets.* Folder. Blue prints.

CLOTHES DRYERS
Victor Dryer Co., 1 Shirley St., Worcester, Mass.
5461. *Catalog.* Illus. Includes price list of dryers, brackets, etc.

CLUTCHES—See Hoists

COAL CHUTES
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2952. *Descriptive literature.* Illus.

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.
3171. *Gabriel Chutes.* Descriptive literature.

Majestic Co., Huntington, Ind.
3901. *Six Reasons Why.* Folder. 4 pp. Illus. Explains details of Majestic coal window.

Sykes Metal Lath Co., Niles, O.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.

COLLEGES AND SCHOOLS—See Schools

COLORS, CEMENT, MORTAR, STUCCO—See Mortar Colors

COLUMN BASES
Cheney & Son, S., Manlius, N. Y.
2761. *Price List.* General catalog. 46 pp. Illus. Covers complete line of Cheney products.

COLUMN AND BEAM COVERING
United States Gypsum Co., 205 W. Monroe St., Chicago.
4812. *Bulletin PT4.* Gives relevant data.

COLUMNS, IRON AND STEEL
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2958. *Stanchions for Basement.* Leaflet. Illus.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp.

COLUMNS, WOOD
Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24. pp.

Pacific Lumber Co. of Illinois, 2060 McCormick Bldg., Chicago.
4241. *Construction Digest.* Illus. Contains data and description.

COMBINATION DOOR—See Doors

COMBINATION WOODWORKERS—See Woodworking Machinery

CONCRETE ACCESSORIES
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2957. *Concrete Inserts.* Descriptive literature. Illus.

Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4201. *Northwestern.* General catalog. 16 pp. Northwestern products, including *Kno-Burn* metal lath, *Longspan Plasta-Saver, Nemco* channels, corner bead and metal waste baskets.
4205. *Designing Data.* Catalog. 94 pp. Covers complete line of *Econo* expanded metal for reinforced concrete.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletin FT3.* Deals with *Floor Voids* for use in concrete.

Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder System.* Catalog. Illus. Takes method of building double monolithic concrete walls without forms.

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MISSISSIPPI - WIRE - GLASS - CO.
WG
FIRE RETARDANT No. 32



Straus Building, Chicago
Graham, Anderson, Probst & White
Architects

Mississippi Wire Glass Co.
220 FIFTH AVENUE
NEW YORK
St. Louis Chicago

How you profit by 4 Building Facts

Here is extra profit—new business—satisfied customers for you. An ad every carpenter will want to read.

Now there is a way to make more money on every job—and yet have *better satisfied clients.* By knowing and using these building facts. It will pay every builder and carpenter to read these.



Ceco equipped house at Lancaster, Pa.

$50.00 Profit Here

This house was Ceco Weatherstripped for $174.00. Materials and labor cost $124.00 The Ceco agent made $50.00. Besides full price for his labor.

These Mean Your Profit

1. 27 coal dollars out of every 100 spent for house-heating are wasted thru cracks around the windows and doors.
2. Science proves cracks around *each window* equal a hole 4 in. square —to let in dust and cold.
3. Ceco improved Slide Lock Weatherstrips stop 96 per cent of this loss by scientifically closing these cracks.
4. Ceco equipped windows *always* slide easily—yet never rattle, loosen or wear out.

Where Ceco Equipment Used

Carpenters and builders—not high pressure salesmen, sold these jobs. Profits have gone to them. Good substantial amounts.

How You Can Profit

There is an opening here for you. Perhaps right in your town. Write for full information.

91 percent of the original Ceco agents are still with us. If you are already a weatherstrip man find out why these men stay Ceco agents.

Full details will come to you when you mail the coupon below. Do so today. Send to Ceco Weatherstrip Co., 1926 52nd Avenue, Chicago, Illinois.

Ceco
METAL WEATHERSTRIPS

CLIP AND MAIL—BE SURE TO FILL IN ALL DATA

Ceco Weatherstrip Company
Dept. B-2—1926 So. 52nd Ave., Chicago, Ill.
Without obligation tell me about Ceco Strips and your Agents plan.
I am an experienced weatherstrip man ☐
I have never sold or installed weatherstrips ☐
My present occupation is.....
NAME.....
ADDRESS.....

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Selected List of Manufacturers' Literature

(Continued from page 150)

Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section dealing with their electrically welded wire fabric for concrete reinforcement.

CONCRETE BLOCKS—See Building Blocks

CONCRETE BLOCK MACHINE—See Concrete Machinery

CONCRETE MACHINERY

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2051. *Why Stay a Little Fellow?* Folder. 4 pp. Illus. Describes the *Magic Concrete Mixer.*
2052. *The Concrete Road to Success.* 22 pp. Illus. *Magic Mixer.*

Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.
2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.

American Cement Machine Co., Keokuk, Iowa.
2101. *Boss Hoists.* Bulletin No. 117. 6 pp. Illus.
2102. *Boss Tilter Mixer.* 12 pp. Illus. Specifications.
2103. *Boss Big One Bagger.* Bulletin No. 5. Illus.
2104. *Boss Heavy Duty Type Mixer.* No. B24. 30 pp. Illus.
2105. *Boss Combination Paving and Building Mixer.* No. P9.

Anchor Concrete Mchy. Co., Adrian, Mich.
2231. *Anchor Line of Concrete Machinery.* 36 pp. Illus.
2232. *Hobbs Concrete Block Machine.* 16 pp. Illus.
2233. *Handbook* on concrete products machinery. 66 pp. Illus.

C. H. & E. Mfg. Co., Clinton & Mineral Sts., Milwaukee, Wis.
2584. *Mortar Mixers.* Bulletin. Illus.

Chain Belt Co., Milwaukee, Wis.
2681. *Rex Mixers.* Catalog No. 117. 26 pp. Illus. Deals with mixers and mixer equipment.
2682. *Rex Powers.* Catalog No. 118. 42 pp. Illus. Contains descriptions, details, and specifications of various types.

Concrete Equipment Co., Holland, Mich.
2781. *Utility Concrete Equipment.* Catalog. 28 pp. Illus. Shows various types and size of *Utility* concrete block machines.
2782. *Utility High Speed Ramming Machine.* 6 pp. Illus.

Construction Machinery Co., Waterloo, Iowa.
2801. *The Wonder Catalog.* Covers line of *Wonder* Equipment.

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.

Ideal Concrete Machinery Co., 5000 Spring Grove Ave., Cincinnati, O.
3471. *Ideal Concrete Machinery.* Catalog No. 35. 80 pp. Illus. Describes complete line of concrete block, and brick making machines, mixers, hollow tile machines and ornamental molds.
3472. *Ideal Cincinnatus Batch Mixers.* Booklet. 26 pp. Illus.

Jaeger Machine Co., Columbus, O.
3531. *Jaeger Mixers.* Catalog. 36 pp. Illus.

Koehring Co., 31st & Concordia Sts., Milwaukee, Wisc.
3713. *Dandie Mixer.* Circular. Discusses *Dandie* light mixers.
3714. *Concrete—Its Manufacture and Use.* Book. 208 pp.

Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus. Lists such equipment as mixers, scrapers, barrows, hoists, etc.

Miles Mfg. Co., Jackson, Mich.
3991. *General Catalog.* Illus. Presents complete *Miles* line of block and brick machines, power lampers, mixers and moulds.

Ransome Concrete Machinery Co., Dunellen, N. J.
4381. *7-S Building Mixer.* Bulletin 110A. Illus.
4382. *Standard Building Mixers.* Bulletin 112. Illus.
4383. *4-S and 7-S Bantam Mixers.* Bulletin 114. Illus.
4384. *3½-S Tilting Mixer.* Bulletin 116.
4385. *21-E Paving Mixer.* Bulletin 113. Illus.
4386. *Chuting Equipment.* Bulletin 202. Illus.
4387. *Monkey-on-a-Stick.* Bulletin 115. Illus.

Remmel Mfg. Co., Dept. H., Kewaskum, Wis.
4391. *Remmel Catalog*, 1925. Illus. Takes up complete line *Remmel Tilting Type* mixers.
4392. *Remmel Mixers.* 2 Folders. Contains description and data.

Sheldon Mfg. Co., Inc., Box 25, Nebawka, Neb.
4561. *The "Know How" of Concreting.* Illus. Booklet. 127 pp. Contains information on various phases of concrete work.
4562. *A Series of Leaflets*, Folders, etc. Illus.

Smith Co., T. L., Milwaukee, Wisc.
4591. *Smith Simplex Mixer.* Bulletin No. 409-A. 20 pp. Illus.
4592. *Smith Non-Tilting Mixer.* Bulletin No. 405-A. 48 pp. Illus.
4594. *Smith Concrete Mixers and Pavers.* Catalog. Illus. 64 pp.

Stewart Mfg. Co., 124 Rath St., Waterloo, Ia.
4681. *Catalog* 25. Illus. Contains full description of their mixers.

Universal Cement Mold Co., No. Milwaukee, Wis.
5471. *Build the Hollow Wall Way.* Literature.

Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder Machines.* Booklet. Illus. Takes up method of building double monolithic concrete wall without forms.

CONCRETE PROCESSES

General Fireproofing Co., Youngstown, O.
3224. *Crystalrox.* Folder. 4 pp. Illus. Pertains to hardening and dust-proofing of cement floors.
3225. *Metallic Floor Hardener.* Folder. GF. 140. 4 pp. Illus.

Morene Products Co., Inc., 241 W. 28th St., New York.
5371. *Morene, the Wall Finish Distinctive; a Portland Cement Product—Atlas White.* Brochure. Illustrated. Shows examples of *Morene* used for ceiling, wall and mural decorations.
5372. *Folder.* Describes *Morene* and its use as decorative medium.

Solvay Process Co., 40 Rector St., New York.
4601. *For Concrete Summer and Winter.* Illus. Catalog. 16 pp. Describes uses of their calcium chloride for concrete.
4602. *Solvay Calcium Chloride for Concrete Construction.* Illus.

Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder System.* Catalog. Illus. Describes building double monolithic concrete walls using Van Guilder machines.

CONCRETE REINFORCING—See Concrete Accessories

CONCRETE SURFACER

Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.
2701. *Berg Surfacer and Finisher.* 8 pp. Illus. Deals with concrete surfacing apparatus.

CONDUCTOR PIPE—See Pipe, Conductor

CONSTRUCTION, FIREPROOF—See Building Construction

COPPER—See Leaders, Flashings and Gutters

CORNER BEAD—See Metals, also Building Construction

CORRESPONDENCE COURSES—See Schools

CORRUGATED ASBESTOS—See Asbestos Products

CRANES

Koehring Co., 31st & Concordia Sts., Milwaukee, Wisc.
3712. *Koehring Booklet.* Lists complete line of products.

CRAYONS, LUMBER

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line of Aloe levels, transits, and drafting material.

DADO HEADS—See Woodworking Machinery

DAMPERS AND ASH DUMPS (FIREPLACE)

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.
3175. *Dome Dampers and Ash Dumps.* Descriptive literature.

Hornet Mantel Co., 1147-A Market St., St. Louis, Mo.
3442. *Homet Dampers.* Descriptive literature. Illus.

Sykes Metal Lath Co., Niles, O.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.

DAMPPROOFING—See Waterproofing, also Stucco, etc.

DECK CLOTH—See Roofing Materials

DERRICKS

Sasgen Derrick Co., 3010 W. Grand Ave., Chicago, Ill.
4531. *Circular No.* 2. Illus. Comprises descriptions of complete line of Sasgen derricks. Includes prices.

DIFFUSING GLASS—See Glass, Ornamental

DIRECT MAIL ADVERTISING—See Mailing Lists

DOOR CHECKS—See Hardware, Window and Door

DOORS, METAL

Bayley Co., Wm., Springfield, O.
2381. *Bayley-Springfield Steel Doors.* Bulletin D21. 4 pp. Illus.

Lupton's Sons Co., David, Philadelphia, Pa.
3849. *Lupton's Steel Doors.* Describes several types.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4424. *Monarch Mill-Type Doors.* Illus. Catalog. 8 pp.

Truscon Steel Co., Youngstown, O.
4795. *Truscon Steel Sash.* Illus. 80 pp. Handbook.
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog. Contains designing data, tables and views of stock sash installations.

DOORS, WOOD

Chicago & Riverdale Lumber Co., Riverdale, Chicago.
5421. *Catalogs.* Illustrated. Cover entire line of doors, sash, etc.

Combination Door Co., Fond-du-lac., Wisc.
2751. *Easy-Change Combination Doors.* Catalog H. Illus. Deals with description of combination storm and screen door.

Long-Bell Lumber Co., R. A. Long Bldg., Kansas City, Mo.
3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.

Morgan Sash & Door Co., Chicago, Ill.
4041. *Building with Assurance.* Catalog. 440 pp. Illus. Shows bungalows and houses (in color) with floor plans. Includes information on interior decorating, etc. Price $2.50, refunded under special conditions. $3.50 west of Rockies, in Canada and Foreign Countries.

Paine Lumber Co., Ltd., Oshkosh, Wisc.
4251. *Miracle Doors. Booklet.* 16 pp. Illus. Presents details concerning *Paine* doors in paint and natural finish.
4252. *Paine Miracle Doors.* Catalog. 56 pp. Illus. in color.

Stearns, A. T., Lumber Co., 87 Taylor St., Neponset, Boston, Mass.
4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawings of mantels, columns, doors, sash, windows, blinds

Wheeler, Osgood Co., Tacoma, Wash.
5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of these doors.
5022. *Laminex Doors.* Catalog 31. Includes 20 designs in vertical and flat grain veneers. Size and details.
5024. *Laminex* Book. For architects and the building trade.

DOORS, SIDEWALK—See also Vault Lights

American 3-Way-Luxfer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2206. 3 *Way-Luxfer Sidewalk Doors.* Bulletin D23. 4 pp. Illus. Describes 5 types, also includes 3-*Way* Automatic door guard.

DOOR FRAMES—See Frames, Door and Window

DOOR AND WINDOW TRIM

Milwaukee Corrugating Co., Milwaukee, Wisc.
4003. *Milcor* Expansion Door and Window *Trim.* 8 pp. Illus.

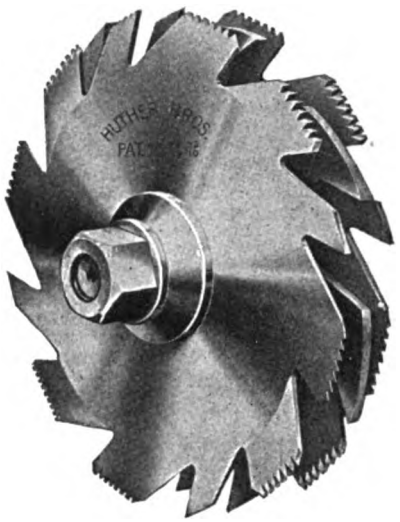
DOOR BEDS—See Built-In Features

DRAFTING AND SURVEYING MATERIALS

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line of Aloe levels, transits and drafting material.

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There's more profit in a HUTHER SAW



A Huther Dado Head means bigger profits for you as it makes the most intricate cutting and grooving simple. It consists of two outside cutters and enough inside cutters to perform the desired cut. Simple to adjust.

Send for one on approval. It may be returned at our expense if unsatisfactory.

Huther Bros. Saw Mfg. Co.
ROCHESTER, N. Y.
Makers of Better Saws for More Than Fifty Years

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REG. U. S. PAT. OFF.

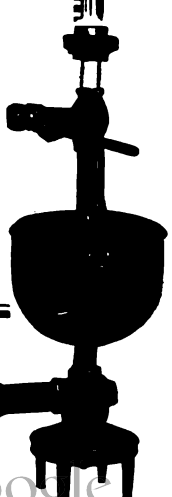
IMPROVED MODEL "R"
Automatic
CELLAR DRAINER

requires less floor space than any similar device on the market, due to its patented float "built around suction tube" construction. An important factor in small basements. Your customers will find the Penberthy

More Efficient **More Reliable**
More Durable **More Economical**

The movement has only one point of friction, is extremely simple and unaffected by dirt. There are no springs, the rotary packing movement being based upon unchanging natural laws. It pays to install a Penberthy.

Your Jobber Has Them



Penberthy Injector Co.

Established 1866

1248 Holden Ave. **Detroit, Mich.**

Canadian Plant, Windsor, Ontario

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Selected List of Manufacturers' Literature

(Continued from page 152)

Beckman Co., L., 1002 Jackson Ave., Toledo, O.
2421. *Survey Instruments.* Catalog No. 8. 82 pp. Illus. Covers complete line of *Beckman* levels and transits. With prices.

Geier & Bluhm, Inc., Troy, N. Y.
3201. *Standard Precision Convertible Level.* Circular C. 6 pp.
3202. *Junior Convertible Level.* Circular E. 6 pp. Illus.

Kolesch & Co., 138 Fulton St., New York.
3721. *Catalogue of Kolesch.* Book. 336 pp. Illus. Shows complete line of surveying and drafting instruments

Makepeace, Inc., B. L., 387 Washington St., Boston, Mass.
3921. *Loxo Compound Level.* Booklet. 16 pp. Illus.

Master Rule Mfg. Co., Inc., 815 E. 136th St., New York.
3951. *Interior Master Slide Rule.* Folder. 4 pp. Illus.

New York Blue Print Paper Co., 102 Reade St., New York.
4161. *General Catalog.* Illus. Includes complete line.

Peerless Blue Print Co., 341 5th Ave., New York.
4271. *Peerless Catalog.* Illus. Comprises descriptions of surveyors', builders' and draftmen's equipment.

Warren-Knight Co., 136 N. 12th St., Philadelphia, Pa.
4921. *Sterling Tracing & Detail Papers.* Samples.
4922. *Sterling Levels and Transits.* Catalog. 32 pp. Illus. Contains specifications and structural details of instruments.
4923. *Pocket Note Book.* Illus. Gives instructions for use.

White Co., David, 907 Chestnut St., Milwaukee, Wisc.
5051. Catalog A. *White's Improved Instruments.* Illus. 36 pp.

DRAWING MATERIALS—See Drafting Materials

DRAW PULLS—See Hardware

DUMBWAITERS—(See also Elevators)

Highwood Dumbwaiter Co., Closter, N. J.
5781. Catalog No. 5. Illus. Deals with "Sylvan," "Highwood," "Herculean," etc., types.
5782. *Leaflet.* Illus. Description and specifications.

Sedgwick Machine Works, 156 West 15th St., New York.
4551. *Catalog O.* Illustrated. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiters, brass tube dumb waiters, etc.

ELECTRICAL EQUIPMENT

Erie Fixture Supply Co., Erie, Pa.
5351. *Catalog No. 26.* Describes their line of completely wired lighting fixtures.

General Electric Co., Bridgeport, Conn.
3211. *Electrical Contractors' Catalog.* Illus.
3212. *Wires and Cables.* Catalog. 85 pp. Illus. 4 bulletins.
3213. *Electric Fans.* Folder. 6 pp. Illus. Gives details.
3214. *Reliable Wiring Devices.* Pocket Catalog. 206 pp. Illus. Gives prices and data for switches, rosettes, etc.

Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn.
3311. *H & H Line of Electrical Wiring Devices.* Catalog R. 152 pp. Illus. Presents line of *H & H* wiring equipment.
3312. *Architect's Handbook.* 18 pp. Illus. Contains specifications of *H & H* equipped buildings.
3313. *Tumbler Switch.* Folder. 4 pp. Illus. Describes action of H & H type tumbler switch.

Johns-Manville, Inc., 292 Madison Ave., New York.
3555. *Friction Tapes & Rubber Splicing Compounds.* Folder. 4 pp.
3556. *Fibre Conduits.* Booklet. 12 pp. Illus.
3557. *Electrobestos.* Booklet. 16 pp. Illus.

Western Electric Co., New York.
5001. *Inter-Phone Systems.* Descriptive literature.
5002. *Western Electric Lighting Manual.* Gives data.

ELEVATORS

American Saw Mill Mchy. Co., 61 Main St., Hackettstown, N. J.
2172. *General Catalog. No. 22.* Contains description of hoists and general line of woodworking machinery.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Kimball Bros. Co., Council Bluffs, Ia.
3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.

Otis Elevator Co., 11th Ave. and 26th St., New York.
5451. *Catalogs* Concern passenger and freight elevators.

Sedgwick Machine Works, 156 West 15th St., New York.
4551. *Catalog O.* Illus. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiter, brass tube dumb waiters, etc.

ELEVATOR DOOR EQUIPMENT

McCabe Hanger Mfg. Co., 425-27 W. 25th St., New York.
3851. *Elevator Door Hangers.* Booklet 23-B. 8 pp. Illus. Shows details of *McCabe* elevator door hangers.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4423. *Ideal Elevator Door Equipment and Checking Devices.* Illus. Catalog, A-21. Lists, with prices, elevator door hangers, closers, latches, etc., for various types of doors.

ENGINES

Hercules Corporation, Evansville, Ind.
3361. *Hercules Engines.* Bulletin No. 18. 24 pp. Illus. Presents complete line of Hercules engines. Contains specifications.

FIBRE BOARD LUMBER—See Wallboard

FIREPLACE FURNISHINGS

Brecher Co., 445 W. Jefferson St., Louisville, Ky.
5241. *Brecher Mantels.* Descriptive literature.

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus. Covers line.

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2951. *Book of Fireplace.* 24 pp. Illus.

Hornet Mantle Co., 1147-A Market St., St. Louis, Mo.
3443. *Hornet Fireplace Furnishings.* Literature. Illus.
3444. *Hornet Wood and Tile Mantels.* Literature. Illus.

Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.
4171. *General Catalog.* No. 10. Illus. Presents complete line.

FIREPROOF CONSTRUCTION—See Building Construction

FLAG POLES

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Pole & Tube Works, Inc., Newark, N. J.
4331. *Flag Poles and Radio Masts.* Provide designs for installations.

FLOOR HARDENERS—See Concrete Processes

FLOOR MAINTENANCE

General Fireproofing Co., Youngstown, O.
3226. *Wood Floor Preservative.* Folder GF160. 12 pp. Illus.

Johnson & Son, S. C., Dept. BA4, Racine, Wisc.
3561. *Proper Treatment for Floors, Woodwork, and Furniture.* 32 pp. Illus. Treats on hard and soft wood finish.
3562. *Portfolio of Wood Panels.* 14 pp. Illus. Contains actual panels of finished woods. Includes finishing data.

FLOORING

Armstrong Cork Co., Linoleum Division, Lancaster, Pa.
2271. *Business Floors.* 48 pp. Illus. Data and directions on laying in public and semi-public buildings.
2272. *Armstrong's Linoleum Floors.* Handbook. Illus.

Bruce Co., E. L., Memphis, Tenn.
5701. *Catalog.* 24 pp. Illus. Deals with convenience and wearing qualities of Bruce Oak flooring.

California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of "Information Sheets" on California White Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.

Certain-teed Products Corp., 100 E. 42nd St., New York.
2671. *Linoleum, Floortex, Roll Goods and Rugs.* Descriptive literature, samples and prices.

Long-Bell Lumber Co., R. A. Long Bldg., Kansas City.
3811. *The Perfect Floor.* 16 pp. Illus. Discusses methods of laying, finishing and caring for oak flooring.

Norton Co., Worcester, Mass.
4211. *Norton Floors.* Booklet. 24 pp. Describes the several types of *Alundum* floors with reference to their applications.
4212. *Norton Floors.* Monthly House Organ. 4 pp. Illus.
4213. *Alundum Safety Tile.* Booklet. 38 pp

Oak Flooring Bureau, 1014 Ashland Block, Chicago.
5161. *The Story of Oak Floors.* 24 pp. Illus. Discusses oak for floors and different types of product.
5162. *How and Where to Use Oak Floors.* 16 pp. Illus.
5163. *For School Buildings.* Folder. 6 pp. Illus.
5164. *For Beauty, Economy and Durability.* Folder. 6 pp. Illus.

Pacific Lumber Co. of Illinois, 2060 McCormick Bldg., Chicago.
4241. *Construction Digest.* Illus. Contains data and description.

Ritter Lumber Co., W. M., Columbus, O.
4451. *Ritter Oak Flooring.* Illus. Catalog. 36 pp.

Wood-Mosaic Co., Inc., New Albany, Ind.
5121. *Wood-Mosaic Flooring.* Catalog of wood-carpet, strips, parquetry, tongue and groove flooring in natural wood colors.
5122. *Wood-Mosaic Floors.* Catalog. Illus. 32 pp.

Wright Rubber Products Co., Racine, Wisc.
5142. *Folder.* Illustrates their rubber tile. Shows installations.

FLOORING, COMPOSITION

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2464. *Bishopric Composition Flooring.* Description.

Everlasbestos Flooring Co., Rochester, N. Y.
3041. *The Modern Floor.* Booklet. 16 pp. Illus.

Muller, Franklyn, R., Inc., Waukegan, Ill.
4051. *Asbestone Fireproof Flooring.* 16 pp. Illus. Shows details
4052. *Instruction for preparing and laying Asbestone.* 8 pp. Illus.

Rocbond Co., Van Wert, O.
4463. *Rocbond Flooring.* Illus. Booklet. Describes properties and application for public buildings, stores, houses, etc.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletins FT 3, SP2.*

FLOORING—Industrial

Johns-Manville, Inc., 292 Madison Ave., New York.
3558. *Flooring That's Made to Fit.* Booklet. 16 pp. Illus.

FLOOR SANDERS—See Floor Surfacing Machinery

FLOOR SURFACING MACHINERY

American Floor Surfacing Machine Co., So. St. Claire St., Toledo, O.
2121. *American Universal.* Booklet. 8 pp. Illus.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2341. *Electric Portable Sander.* Bulletin BE. Illus.

Campbell Machine Co., Inc., 39 Hayward, Wollaston, Mass.
2621. *Catalog.* Illus. 16 pp. Discusses different uses of floor surfacing machine

Chappell & Co., Waywell, 137 No. Jackson St., Waukegan, Ill.
2691. *Little-Automatic Electric Surfacing Machine.* Folder. 4 pp Ballbearing Electric Floor Surfacing Machine.

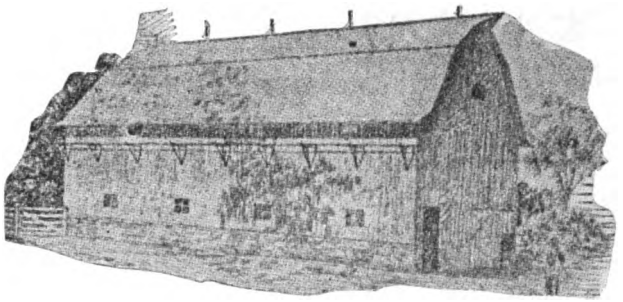
Electric Rotary Machine Co., 3825 W. Lake St., Chicago.
3001. *The Electric Rotary Machine.* Catalog. 28 pp. Illus. Covers entire line of floor surfacing, refinishing machinery.

Fox Supply Co., Brooklyn, Wisc.
3161. *Fox Floor Scraper No. 1.* Leaflet. Illus. Includes price.

Lincoln-Schlueter Machinery Co., 225 W. Illinois St., Chicago.
3791. *Improved Schlueter Non-Lever Floor Surfacer.* Leaflet.
3792. *Illustrated Letter.* 4 pp. Presents description and data.

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"They are saving us more money than they cost"



So writes Mr. F. E. Wester, a general contractor and builder, of Marquette, Michigan. Read his letter which tells what he thinks about Reliable Scaffold Brackets:

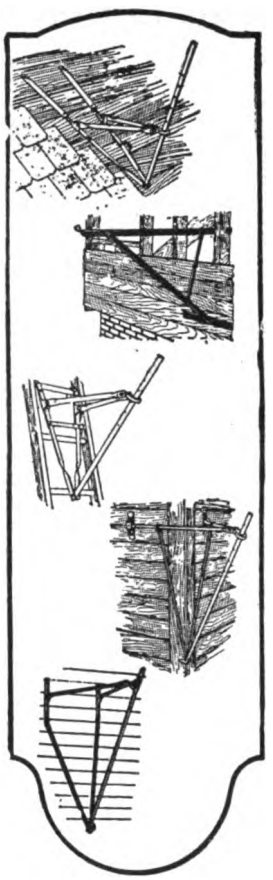
Marquette, Mich.

Elite Mfg. Co.,
Ashland, Ohio.

Gentlemen:

I wish to let you know that I am greatly pleased with the "Reliable" Scaffold Brackets I bought from you last summer. It is needless to say that they are saving us more money than they cost. I have used them on all kinds of buildings and find them absolutely safe.

Yours truly,
(Signed) F. E. Wester,
General Contractor & Builder.



How about you? Are you still wasting time, lumber and money by using out-of-date and unsafe wooden scaffolds? Buy some Reliable Steel Brackets and stop wasting your profits. Remember, you don't have to plug up holes after taking down Reliable Brackets.

There is a Reliable for every kind of job you have—Roofing Bracket, Hook Type Bracket, Ladder Bracket, Corner Bracket, and the standard Scaffold Bracket. Every one of them is a money saver.

Send for our illustrated folder describing these brackets or order now. We ship C. O. D. so you can see the brackets before you pay a cent.

ELITE MANUFACTURING COMPANY

Dept. BA-11

Reliable Scaffold Brackets
No holes to plug after they are removed

ASHLAND, OHIO

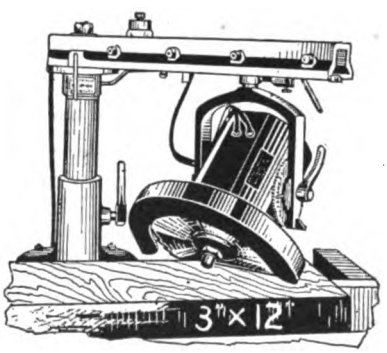
WILL IT DO YOUR WORK? WILL IT!

Say Man, Yes! and better work than you have been doing; also save its cost on the first $6,000 of frame construction you do with it.

The De Walt Wonder-Worker

The greatest helper to the woodworking industry produced in the last century.

It will do the work of three men.



20 per Cent Saved on All Frame Work That You Construct

Can you afford to throw away 20% on your labor by not using a De Walt Wonder-Worker.

E. G. MILLER LUMBER COMPANY, of Paulsboro, N. J., says:

"Just as an example of what this machine may do, just yesterday I took it on my own behalf to investigate. I ripped 2x10's into 2x4's and 2x6's at the rate of 2000 feet per hour. Inasmuch as this would cost us at the rate of $3 per M at an outside mill, I consider this quite a saving over our cost, which was three men rated at 50c. per hour, or 75c. per M, a saving of $2.25 per M."

Buy It! Try It!

And if after 30 days' trial you can afford to do without it—you can return it for full return of your money.

DE WALT PRODUCTS CO., B.A.
Leola, Penna.

Please send me information about the De Walt Wonder-Worker.

Name .....

Address .....

DE WALT PRODUCTS CO.

LEOLA, LANCASTER CO., PENNA.

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Selected List of Manufacturers' Literature

(Continued from page 154)

3793. *The Marvel.* Folder. 2 pp. Illus. Describes two disc type.
3794. *3 Men and a Lincoln.* Folder. 4 pp. Illus.

Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.
3962. *Master Floor Sander.* Descriptive literature.

National Sanding Machine Co., 543-45 Vedder St., Chicago.
4111. *Super Floor Surfacing Machine.* Catalog. 16 pp. Illus. Explains 5-day trial and 5-year guarantee policy
4112. *The Lightning Electric Floor Surfacer.* Circular. 4 pp.

Triple "A" Machine Co., 4605 Ravenswood Ave., Chicago, Ill.

FLOOR VOIDS FOR CONCRETING—See Concrete Accessories
4771. *Booklet.* Illus. Describes their combination scraper.

FRAMES, DOOR AND WINDOW—See Doors, also Windows

FROST PREVENTATIVE—See Concrete Processes

FURNACES—See Heating Equipment

GARBAGE DESTROYERS

Buffalo Co-operative Stove Co., Buffalo, N. Y.
5821. *Literature.* Description and specifications.

Kerner Incinerator Co., 1027 Chestnut St., Milwaukee, Wis.
3641. *The Sanitary Elimination of Household Waste.* Folder M-30.

GARBAGE RECEIVERS

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2953. *Descriptive Literature.* Illus.

Majestic Company, Huntington, Ind.
3903. *Garbage Receivers.* Catalog of Majestic products includes data.

GAS PRODUCERS

American Heating & Lighting Co., Morenci, Mich.
2131. *Gas for Country and Suburban Homes.* 166 pp. Illus.

Detroit Suburban Gas Plant Co., Detroit, Mich.
5831. *Literature.* For suburban homes.

GLASS

American Window Glass Co., Pittsburgh, Pa.
2211. *Complete Window Glass Specifications.* Folder. 4 pp. Illus.

Bayley Co., Wm., Springfield, O.
2388. *Bayley-Springfield Wire Glass Windows.* Bulletin. Illus.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* 36 pp. Illus. Takes up complete line.
4012. *Factrolite.* Leaflet. Deals with the use of this type of glass.

GLASS, ORNAMENTAL

American 3-Way-Luxfer Prism Co., 13 St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2201. *Lux Lens Pressed Tile.* 4 pp. Illus. Describes *Lux Lens* and *Spero Lens* for store fronts and transom lights.
2202. *3 Way-Luxfer Prisms.* 4 pp. Illus. Describes 3-Way Prismatic Glass for store fronts, transoms and upper sash.

Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* 36 pp. Illus. Takes up complete line wire glass and ornamental sheet glass. Includes tests.
4012. *Factrolite.* Leaflet. Deals with the use of this type of glass.

GLAZING COMPOUND—See Caulking

GLUE POTS

Barker & Co., B. L., 642 W. Washington Blvd., Chicago.
2347. *Descriptive Literature.* Illus.

Black Bros. Co., Inc., Mendota, Ill.
2471. *Bulletin 11-G.*. 2 pp. Illus. Describes electric glue pot.

Wallace & Co., J. D., 134-153 S. California Ave., Chicago.
4892. *Wallace Machines for Working Wood.* Illus. Catalog.

GRILLES—See also Registers

Garden City Plating & Mfg. Co., 1430 So. Talman Ave., Chicago.
3193. *Circular.* Shows standard designs in grilles and wickets of brass, bronze and steel.

Hart & Cooley Co., Inc., New Britain, Conn.
3301. *Grilles.* Catalog. Illus. Contains complete information.

Tuttle & Bailey Mfg. Co., 2 W. 45th St., New York.
4801. *Catalog—No. 78, and Special Booklet on Grilles.* Includes *Ferrocraft Grilles* in plain lattice and 500 special designs;

Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section devoted to their perforated metal grilles. Designs in black and white.

GRINDING MACHINERY

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus.

Huther Bros. Saw & Mfg. Co., Rochester, N. Y.
3461. *Huther Grinding Attachment.* Leaflet. 2 pp. Illus.

GUARDS, WINDOW—See Grilles, also Ornamental Iron

GUTTERS—See Leaders, etc.

GYPSUM

United States Gypsum Co., 205 W. Monroe St., Chicago.
4814. *General Catalog RB1.*

HAMMERS—See Tools

HANGERS, DOOR—See Hardware

HARDWARE

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus.

Ives Co., H. B., New Haven, Conn.
3521. *Builders' Hardware.* Folder. Illus. Describes *Ives* line.

Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog. No. 57.* 414 pp. Illus. Presents complete line of *Myers pumps*, door hangers, store ladders, etc.

National Mfg. Co., Sterling, Ill.
4091. *National Garage Hardware.* Catalog. 32 pp. Illus. Includes working drawings of garages.
4092. *Builders' Hardware.* Catalog No. 19. 120 pp. Illus.
4093. *Ornamental Ideas.* 24 pp. Illus. Deals with hinge and butt.

Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.
4171. *General Catalog.* No. 10. Illus. Presents complete line.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4424. *Woodworking Vises & Manual Training Benches.* Illus.
4429. *Booklet.* Ill. Describes big door hardware for round houses.

Sargent & Co., New Haven, Conn.
4521. *Details to Which Standard Hardware Can Be Applied.* Booklet. 6 pp. Illustrated. Treats on construction details.
4522. *Sargent Door Checks.* Folder. Illustrated.

HARDWARE, WINDOW AND DOOR

Barnes Lock & Sash Holder Co., 1830 Tribune Tower, Chicago.
5651. *Barnes Sash Holder.* Leaflet. Illus. Describes substitute for weights and cords. Includes details and instructions.

Caldwell Mfg. Co., 5 Jones St., Rochester, N. Y.
2601. *Suggestions for the Present Day Architect.* Booklet. 16 pp. Illus. Gives data for *Caldwell* sash balances.

Casement Hardware Co., 250 Pelouse Bldg., Chicago.
2651. *Catalog.* Illus. Describes *Casement Window Specialties.*

Griffin Mfg. Co., Erie, Pa.
3271. *Hinges.* Book. 72 pp. Illus. Covers complete line.
3272. *Cellar Window Sets.* Folder. 4 pp. Illus.
3273. *Garage Hardware.* Folder. 4 pp. Illus.
3274. *Butt Hinges.* Folder. 6 pp. Illus.

Ives Co., H. B., New Haven, Conn.
3522. *Builders' Hardware.* Catalog No. 15. 148 pp. Illus. Covers complete line of *Ives* window and door hardware specialties.

McCabe Hanger Mfg Co., 425-427 W. 25th St., New York.
3852. *General Catalog.* No. 24-B. 60 pp. Illus. Covers house door, garage, folding partitions, and elevator door hangers.

National Mfg. Co., Sterling, Ill.
4091. *National Garage Hardware.* Catalog. 32 pp. Illus. Includes working drawings of garages.
4092. *Builders' Hardware.* Catalog No. 19. 120 pp. Illus.
4093. *Ornamental Ideas.* 24 pp. Illus. Deals with hinge and butt.

Pullman Mfg. Co., Rochester, N. Y.
4371. *15 Minutes Completes the Job.* Folder. 6 pp. Illus. Discusses *Pullman* spring sash balance.
4372. *Catalog No. 38.* Illus. Takes up all types of *Pullman* spring sash balance.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4421. *Distinctive Garage Door Hardware.* Illustrated Catalog.
4422. *Modern Hardware for Your Home.* Illus. 24 pp.
4428. *Catalog No. 40.* Lists sliding and folding partition door hardware.
4429. *Booklet.* Ill. Describes big door hardware for round houses and freight houses.

Sargent & Co., New Haven, Conn.
4521. *Details to Which Standard Hardware Can Be Applied.* Booklet. 6 pp. Illus. Treats on construction details.
4522. *Sargent Door Checks.* Folder. Illustrated.

Star Expansion Bolt Co., 147 Cedar St., New York.
5331. *Literature.* Describes *Dryvns*, their expansion shield.

Weisse Mfg. Co., La Crosse, Wisc.
4991. *Literature.* Describes combination glass and screen enclosed porches and casement window hardware.

Whitney Co., Vincent, 444 Mass. Trust Bldg., Boston, Mass.
5071. *Whitco Casement Hardware.* Decriptive literature.

HEATING EQUIPMENT

American Heating & Lighting Co., Morenci, Mich.
2131. *Gas for Country and Suburban Homes.* 16 pp. Illus.

American Radiator Co., 40 W. 40th St., New York.
2161. *The Ideal Fitter.* 21st edition of hand-book. 346 pp. Illus.
2162. *Ideal Type of Heat Machines.* 48 pp. Illus. Details.
2164. *Corto.* 16 pp. Illus. Introduces new radiator.

Babson Bros., Dept. A555, 19th St. and California Ave., Chicago.
5431. *Bulldog Pipeless Furnace.* Book. Illustrated.

Bovee Furnace Works, Waterloo, Iowa.
2491. *Warm Air Furnaces.* Broadside. Illus. Deals with *Bovee's* bungalow, horizontal radiator and electric fan blower types.

Buffalo Co-operative Stove Co., Buffalo, N. Y.

Burnham Boiler Corp., Irvington, N. Y.
2571. *Letters To and Fro.* Booklet. Treats of the heating question.

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Covers complete line.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.

Hess Warming and Vent. Co., 1207 So. Western Ave., Chicago.
3382. *Modern Furnace Heating.* Catalog. 48 pp. Illus. Describes *Hess* warm air heating systems.

B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.

Majestic Company, Huntington, Ind.
3902. *Ash Pit and Clean Out Doors.* Included in list of Majestic products.

Milwaukee Corrugating Co., Milwaukee, Wis.
40011. *Furnace and Stove Pipe and Fittings.* Catalog No. 25.

Richardson & Boynton Co., 200 5th Ave., New York.
5223. *The Richardson Manual.* 419 pp. Illus. Gives data on "Richardson" Boiler for steam, hot water and vapor system, "Perfect" Warm-Air and Pipeless Furnaces, tank heaters.
5221. *Richardson Hot Water Heater.* Describes *Galvoxide Water Section* for use in connection with the *Richardson.*
5222. *Your Store.* This and another Booklet, for dealers.

Riverside Boiler Works, Inc., 491 Main Street, Cambridge, Mass.
5891. *Literature.* On boilers and water heaters.

Thatcher Co., 39 St. Francis St., Newark, N. J.
4762. *Catalog.* Contains information *Pipeless Furnace.*
4763. *Catalog.* Illus. Describes their *Tubular Furnace.*

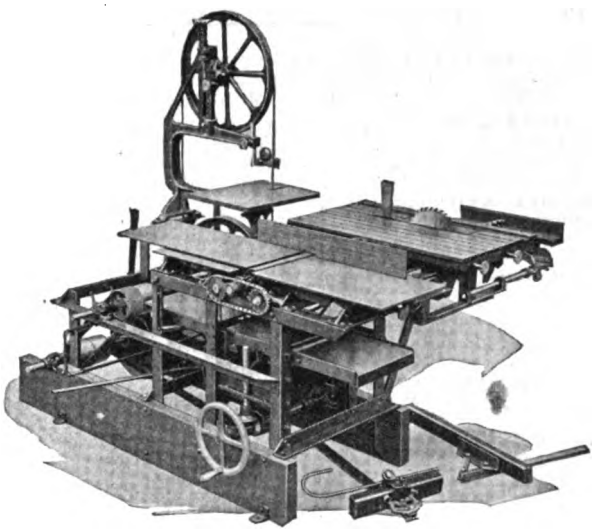
Tuttle & Bailey Mfg. Co., 2 West 45th St., New York.
4802. *Tanbo Antique.* Sample of this Finish for Registers.

United States Radiator Corp., Detroit, Mich.
4831. *Capitol Boilers, Square Type.* Illus. Booklet. 25 pp.
4832. *Capitol Boilers, Winchester Type.* Illus. Booklet. 23 pp.

HEAT INSULATION—See Insulation

HINGES—See Hardware, Window and Door

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Parks "Pride of the Shop"

$420.00

Will Double Your Profits

Parks Pride-of-the-Shop is a self-feed 12 inch pony planer, 12 inch jointer, 12 inch rip and crosscut saw, 22 inch band saw, and boring machine—all in one compact unit. Write for complete specifications and catalog.

Save labor, save mill-costs, save time, save money—with this splendid Parks woodworker. Frank Drury of Jerseyville, Illinois, figures his Parks as worth $2,000.00 based on its return as an investment.

Parks Pride of the Shop saves the wages of four to six hand-carpenters. Do your own special mill-work and rush pieces without delay and for less money. Save time on house-framing. Make door and window-frames. Get out a stock of standard mill-work pieces during slack periods and be ahead of the job during the building season. With the resaw and pony-planer you can make up material of special thickness from rough stock. You can think of hundreds of ways this husky, fast-working machine can cut costs and make money for you.

Parks machines are the most for your money. Get a Parks! Send for complete catalog describing Parks Pride of the Shop and other machines.

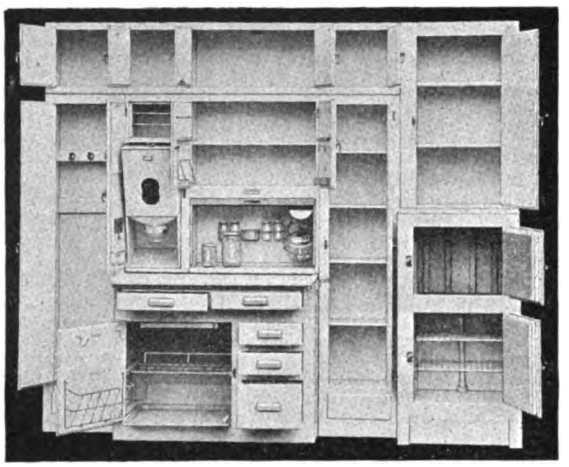
The Parks Ball Bearing Machine Co.

Station A, Cincinnati, Ohio

Canadian Factory: 280 Notre Dame East, Montreal, Canada

PARKS
WOODWORKING MACHINES

KITCHEN MAID
STANDARD KITCHEN UNITS



In every kitchen you plan —an EXTRA PROFIT

WHETHER you build to sell, to rent, or on contract—Kitchen Maid Units create an immediate increased value in either house or apartment, and bring an extra profit to you. You can group or separate these units according to your own plans or to suit the taste of a customer. Units meet every requirement of today's housewife—for beauty and convenience. Yet Kitchen Maid Units cost no more than the old-fashioned cupboards. Leading builders everywhere are adopting them. Get the full facts on these remarkable units. Send the coupon for catalogue, dimensional drawings and special prices for builders.

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1512 Snowden Street, Andrews, Indiana
Please send me information regarding the units checked:
( ) PULMANOOK, consisting of table and 4 seats folding into wall. For alcove ( ); for any kitchen corner ( ).
( ) COMBINATION 210-K, with refrigerator, consisting of cabinet, broom closet, dish closet, and linen cupboards to set against wall.
( ) IN-A-WALL IRONING BOARD, folding into wall when not in use.
( ) BROOM CLOSET, to set in any kitchen ( ); to be built into wall ( ).
( ) DISH CLOSETS, LINEN CUPBOARDS, to be set in ( ); to be built in ( ).
( ) IN-A-WALL TELEPHONE SEAT.
( ) KITCHEN MAID KITCHEN CABINET.
( ) DIVIDED CUPBOARDS, to be used to separate breakfast room from kitchen.
( ) REFRIGERATOR.

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Address .....
City ..... State .....

"Let the Kitchen Maid be your Kitchen Aid"

KITCHEN MAID
STANDARD UNIT SYSTEMS

See Telephone Directory in leading cities for branch offices and agents.

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Selected List of Manufacturers' Literature

(Continued from page 156)

HOISTS—See also Elevators

C. H. & E. Mfg. Co., Clinton & Mineral Sts., Milwaukee, Wis.
2583. *Descriptive Literature.* Bulletin. Illus.

Kimball Bros. Co., Council Bluffs, Ia.
3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.

Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus. Lists such equipment as hoists, mixers, scrapers, etc.

Sedgwick Machine Works, 156 West 15th St., New York.
4551. *Catalog O.* Illus. 52 pp. Lists and describes types of hand-power elevators, dumbwaiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumbwaiters, fuel lifts, counter dumbwaiter, brass tube dumbwaiters, etc.

HOUSE MOVING

LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3761. *Catalog.* 34 pp. Illus. Deals with house moving appliances.

INCINERATORS—See Garbage Destroyers

INJECTERS—See Water Systems

INSULATION

Armstrong Cork and Insulation Co., 197-24th St., Pittsburgh.
5531. *Armstrong Corkboard.* Bulletins. Illustrated. Material includes structural details and methods of laying over various types of construction.

Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints and Insulating Paper.*

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2463. *Bishopric for All Time and Clime.* Booklet. Illus. 44 pp. Describes their heavy weight insulating stucco and plaster base, stucco board, sheathing board, sound deadening stucco.

Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2591. *Cabot's Heat Insulating Quilt.* Literature. Illus.

Celotex Co., 11 W. Washington St., Chicago.
2661. *Your Home.* Catalog. Gives information about *Celotex* and deals with homes. Price 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.

Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

Flaxlinum Insulating Co., St. Paul, Minn.
3081. *Heat Insulation for Houses.* Treating heat insulation and its relation to residence to residence construction.
3082. *For Comfort and Economy.* Booklet. 32 pp. Illus.
3083. *Standard Specifications.* File 19G. Illus. Contains specifications for heat insulating and sound deadening.

Johns-Manville, Inc., 292 Madison Ave., New York.
3559. *Insulating Materials.* 22 pp. Illustrated.

Ruberoid Co., 95 Madison Ave., New York.
4481. *Ru-ber-oid Facts Worth Knowing.* Illus. Booklet. 20 pp.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4815. *Gyp-Lap Sheathing Board.* Bulletins GL3, Misc. 1.

U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool In Architecture.* Booklet. Illu

IRONING BOARDS—See Built-In Features

JACKS, BUILDING

LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3762. *Jacks.* Descriptive literature.

JOISTS AND STUDS, PRESSED STEEL

General Fireproofing Co., Youngstown, O.
3227. *GF Steel Lumber.* Booklet. 12 pp. Illus. Deals with joists and studs for floor, roofs, and partitions.
3228. *GF Steel Joists.* Booklet. 18 pp. Illus.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Truscon Steel Co., Youngstown, O.
4798. *Truscon Steel Joists.* Catalog. Illus. 24 pp.

KITCHEN CABINETS—See Built-In Features

LADDER BRACKETS—See Brackets, Ladder

LATH, EXPANDED METAL AND WOOD—See Stucco Bases

LAUNDRY CHUTES

Pfaudler Co., 217 Cutler Bldg., Rochester, N. Y.
5801. *Glass Lined Laundry Chutes.* Booklet. Illus.

LEADERS, FLASHINGS AND GUTTERS

Milwaukee Corrugating Co., Milwaukee, Wisc.
4004. *Milcor Rain Carrying Equipment.* Folder. 8 pp. Illus.

New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illus. Contains information regarding downspouts and gutters of *Horse Head* zinc.

Wheeling Corrugating Co., Wheeling, W. Va.
5031. *Hand Dipped Conductor Pipe.* Descriptive literature.

Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad. Literature.* Describes leadcoated sheets, roofing, shingles, spouting, gutter, etc.

LEVELS AND TRANSITS—See Drafting and Surveying

LIFTS—See Elevators, also Hoists

LIGHTING—See Electrical Equipment

LIGHTNING RODS

Mast Lightning Rod Co., W. Milton, O.
5571. *Lightning Rods, Fixtures and Ornaments.* Catalog No. 4. Illustrated. Takes up line of copper and galvanized sectional rods.

Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Descriptive Catalog and Price List.* Shows different designs.

LIME

Kelley Island Lime and Transport Co., Cleveland, O.
3611. *Tiger Finish.* Catalog. Illus. Discusses use of *Tiger lime.*

United States Gypsum Co., 205 W. Monroe St., Chicago.
4816. *Bulletins HL1, HL2, HL3, HL4, Spec. 9.*

Woodville Lime Products Co., 622 Madison Ave., Toledo, O.
5131. *Leaflet.* Describes their brands of *Finishing Hydrated Lime.*
5133. *Quality from Stone to Finish.* Broadside

LINOLEUM—See Flooring

LOANS

Miller & Co., G. L., 30 E. 42nd St., New York.
5171. *Descriptive Literature* pertaining to the financing of building.

LUMBER AND WOODWORK

Birch Mfgs. Assn., 229 F. R. A. Bldg., Oshkosh, Wis.
2441. *Literature.* Tells of production and use of birch and kindred hardwoods. Gives information on woodwork finishing.

California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of Information Sheets California White and Sugar Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association

Chicago Millwork Supply Co., 1400 West 37th St., Chicago.
5871. *Millwork and Building Material.* Catalog. Illus. Describes their service.

Chicago & Riverdale Lumber Co., Riverdale, Chicago.
5421. *Catalogs.* Illustrated Cover entire line of doors, sash, etc.

Hartmann-Sanders Co., Eltson and Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. Price 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24 pp.

Jackson Lumber Co., Lockhart, Ala.
5771. *Builders Lumber.* Literature. Illus.

Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3812. *The Post Everlasting.* Booklet. 32 pp. Illus. Gives information on creosoted yellow pine fence posts, etc.
3813. *Poles That Resist Decay.* Booklet. 16 pp. Illus.

Morgan Sash & Door Co., Chicago, Ill.
4041. *Building With Assurance.* Catalog. 440 pp. Illus. Shows bungalows and houses (in color) with floor plans. Includes information on interior decorating, etc. Price, $2.50, refunded under special conditions. $3.50 west of Rockies, in Canada and Foreign Countries.

Oak Service Bureau, Bank of Commerce Bldg., Memphis, Tenn.
5901. *The Charm of Modern Oak.* Booklet. Tells of the Renaissance of Oak for woodwork finish.

Pacific Lumber Co. of Illinois, 2060 McCormick Bldg., Chicago.
4241. *Construction Digest.* Illus. Contains data and description.

Southern Cypress Mfg. Assn., New Orleans, La.
4611. *Descriptive literature.*

Stearns, A. T. Lumber Co., 87 Taylor St., Neponset, Boston.
4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawing of mantels, columns, doors, sash windows, blinds.

Weatherbest Stained Shingle Co., Inc., 145 Main St., North Tonawanda, N. Y.
4962. *Literature* deals with cost of *Weatherbest Stained Shingle* side walls. Includes samples showing Weatherbest color.
4963. *Book.* Newly published book, devoted to remodeling.

Western Pine Mfrs. Assn., 510-517 Yeon Bldg., Portland, Ore.
5011. *The Pondosa Story.* Booklet. Treats of development of Western Pine industry.

MARKING DEVICES—See Branding Irons

MARQUISES

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp.

METALS AND METAL BUILDING SPECIALTIES

American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
2181. *Reference Book. Pocket Edition.* Illus. 168 pp.
2182. *Apollo and Apollo-Keystone Galvanized Sheets.* Catalog. Illus.
2183. *Research in the Corrosion Resistance of Copper Steel.* Booklet. Illus. 24 pp. Gives technical information.
2184. *Facts Simply and Briefly Told.* Booklet. Illus. 16 pp. Gives non-technical statements on *Keystone Copper Steel.*

Bridgeport Brass Co., Bridgeport, Conn.
2511. *Seven Centuries of Brass Making.* Booklet. 77 pp. Illus.
2512. *Tested High Speed Brass Rods.* Booklet. 16 pp.
2513. *Data Book.* Booklet No. 16 48 pp. Illus. Tables and data
2515. *Bridgeport Ledrite Rod-O-Graph.* Chart showing way to figure weight of brass rod to make screw machine parts.

Donley Bros. Co., 12920 Miles Ave., Chicago.
2954. *Donley Devices.* Catalog. 36 pp. Illus. Covers Donley line

Edwards Manufacturing Co., Cincinnati, O.
2991. *Edwards Metal Roofing,* etc. Catalog. 224 pp. Illus.

General Fireproofing Co., Youngstown, O.
32213. *GF Metal Building Specialties.* Folder A. I. A. File No. 16E2. 20 pp. Illus. Includes information on bridging, etc.

Globe Ventilator Co., Dept. L., Troy, N. Y.
3261. *Globe Ventilator* and *Globe Chimney Cap.* Provide specifications on contract work.

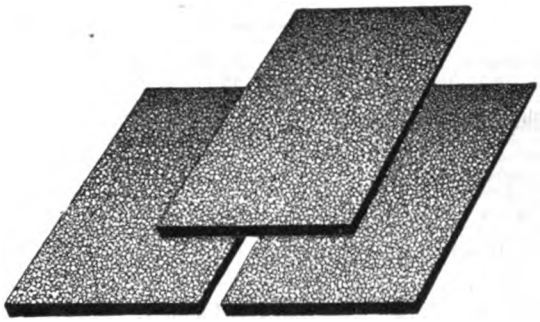
Milwaukee Corrugating Co., Milwaukee, Wis.
4002. *Metal Ceilings.* General Catalog 26. 144 pp. Illus. Deals with line of metal ceilings and specialties.
4012. *Catalog No. 27.* 14 pp. Illus. Designs of Invisible joint ceilings, individual field plates, cornices, etc.

New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illustrated. Describes their leader pipes, eaves troughs, and other zinc products.
4157. *The Roof That Is Ever New.* Folder. Illustrated. Describes their Horse Head Zinc Roofing.

Sheet Steel Trade Extension Com., 715 Oliver Bldg., Pittsburgh.
5661. *Sheet Steel Service.* Monthly magazine. Deals with promotion work carried on in the interests of sheet steel.

Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad.* Literature. Describes lead coated sheets, roofing, shingles, spouting, gutter, etc.

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The thick butts of Winthrops lie flat and snug over old roofs or new sheathing. They are proof against driving rains and drifting snow. They are proof against the sparks from winter's roaring fires.

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Tapered Asphalt Shingles

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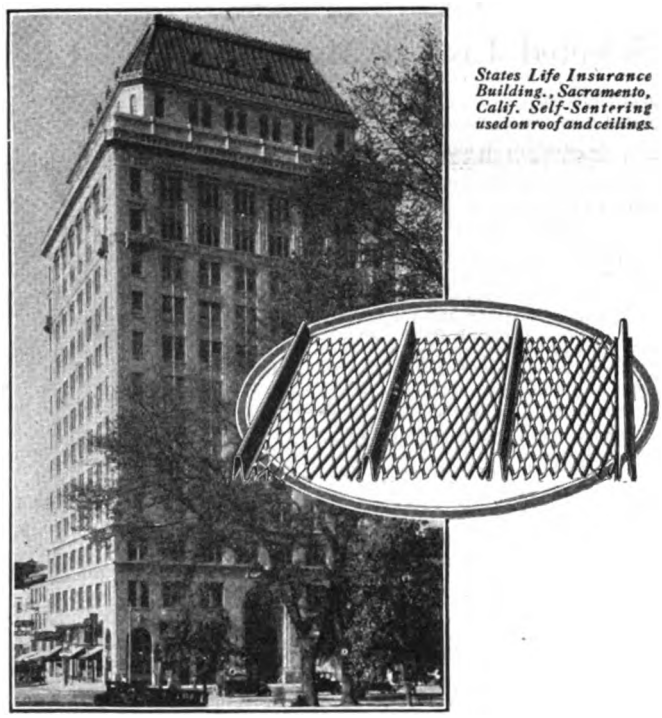
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Selected List of Manufacturers' Literature

(Continued from page 158)

MILLWORK—See Lumber and Woodwork

MINERAL WOOL—See also Insulation

U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool in Architecture.* Booklet. Illus.

MOLDS, CONCRETE—See Concrete Machinery

MORTAR BOARDS AND BOXES

Donley Bros. Co., 12920 Miles Ave., Cleveland, O.
2939. *Mortar Boxes.* Descriptive literature concerning metal boxes.

MORTAR COLORS

Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus.

Clinton Metallic Paint Co., Clinton, N. Y.
2731. *Clinton Mortar Color.* Folder. Illus. Gives directions.
2732. *Color Card.* Portrays various shades.
2733. *Color Harmony in Brickwork.* Series of 6 folders. Illus.

OIL CLOTH—See Wall Covering, also Flooring

ORNAMENTAL IRON AND BRASS

American Brass Co., Waterbury, Conn.
2091. *Anaconda Extruded Shapes.* Folder. 4 pp. Illus. Contains color plate of full size extruded shapes of brass.

Cincinnati Iron Fence Co., 3300 Spring Grove Ave., Cincinnati, O.
2721. *Iron Fence, Gates, Grilles, Window Guards.* Broadside. Illus.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.

Mast Lightning Rod Co., W. Milton, O.
5571. *Lightning Rods, Fixtures and Ornaments.* Catalog No. 4.

Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section showing their ornamental iron fence and gates.

PACKAGE RECEIVERS

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2955. *Descriptive literature.* Illus.

PAINTS, STAINS, VARNISHES AND WOOD FINISHES

Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints.* Descriptive.

Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2592. *Cabot's Creosote Stains.* 16 pp. Illus. Gives description.

Certain-teed Products Corp., 100 E. 42nd St., New York.
2672. *Paints, Enamels, Varnishes, etc.* Literature. Includes samples, color cards, and prices.

General Fireproofing Co., Youngstown, O.
32214. *GF Floor Enamel.* Bulletin No. 155. 4 pp. Illus. Treats preserving and decorating of cement floors.

Glidden Co., Cleveland, O.
3251. *Ripolin Specification Book.* 12 pp. Includes instructions for application of Ripolin.
3252. *Why Ripolin Has an International Reputation.* 24 pp. Shows various uses of *Ripolin Enamel.*

Johnson & Son, S. C., Dept. BA4, Racine, Wis.
3561. *Proper Treatment for Floors, Woodwork and Furniture.*
3562. *Portfolio of Wood Panels.* 14 pp. Contains actual panels.

New Jersey Zinc Co., 160 Front St., New York.
4152. *Mapaz Handbook.* Illus. *Mapaz No. 1*, a zinc oxide paint.
4153. *Zinc as a Paint Pigment.* Pamphlet. Illus.
4154. *40-40-20.* Booklet. Describes new exterior paint made from *Albalith* and XX zinc oxide with 40-40-20 formula.

Paasche Air Brush Co., 1909 Diversey Parkway, Chicago.
5731. *Descriptive Literature.* Illus. Takes up details concerning use of air brush equipment in painting work.

Toch Bros., 110 E. 42nd St., New York.
5331. *Specifications.* 60 pp. illus. catalog. Specifications for dampproofing, waterproofing, enameling.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4817. *Textone.* T3. Architects' specifications for *Textone.*

PAINTS, CEMENT

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2461. *Bishopric Sunfast Finish.* Folder. Illus. Shows reproductions in color of houses with finish applied.
2462. *Color Card.* Contains sample colors of *Sunfast Finish.*

Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus.

PANELS—See Veneer, Wallboard, Panels, Wood

PANELS, WOOD

American Plywood Corp., New London, Wis.
2151. *Plywood Stock List.* Concerns use of panels for built-in work.

PARQUET FLOORING—See Flooring

PARTITIONS

Alberene Stone Co., 153 W. 23d St., New York.
2032. *Illustrated literature* on toilet partitions of soapstone.

Lupton's Sons Co., David, Philadelphia, Pa.
3847. *Catalog D.* Describes steel shelving of various types. One p. on partitions.

McCabe Hanger Mfg. Co., 425-427 W. 25th St., New York.
3853. *Accordion and Folding Door Hangers.* Booklet No. 22-B.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4426. *Partitions.* Illus. Booklet. 32 pp. Shows tracks and hangers for various styles of door partitions.
4428. *Catalog No. 40.* Lists sliding and folding partition door hardware.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4818. *Pyrobar Partition and Furring Tile Book.* Bulletin PT3.

PERGOLAS

Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3332. *Arbors and Pergolas.* Circular D-61. 4 pp. Illus.

PIPE—See also Metals and Metal Building Specialties

American Brass Co., Waterbury, Conn.
2092. *Ten Years Hence.* Booklet. 16 pp. Illus. Discusses the problem of permanent water pipe installation in the home.
2093. *Brass Pipe for Water Service.* Publication B1, 2nd edition.

Bridgeport Brass Co., Bridgeport, Conn.
2513. *Data Book.* Booklet No. 16. 48 pp. Illus. Tables and data.
2514. *Brass Pipe and Pipings.* Bulletin No. 15. Illus.

Johnson Plumbing Supply Co., 3641-43 So. Halsted St., Chicago.
3571. *Johnson Catalog.* Illus. Covers entire line.

PIPE, CONDUCTOR

Lupton's Sons Co., David, Philadelphia, Pa.
3848. *Literature.* Illus. Describes ventilators and conductor pipe

Milwaukee Corrugating Co., Milwaukee, Wis.
4002. *General Catalog No. 26.* 144 pp. Illus

New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illus. Contains information regarding downspouts and gutters of *Horse Head* zinc.

Wheeling Corrugating Co., Wheeling, W. Va.
5031. *Hand-Dipped Conductor Pipe.* Descriptive literature.

PLANS

American Face Brick Assn., 130 N. Wells St., Chicago.
Bungalow and Small House Plans. (See listings under Brick.)

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2465. *Bishopric Plan Book.* Illus. Contains 32 suggestions for houses costing from $7,000 to $20,000. Price, 25 cents.

Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.
2711. *Five Room Bungalow.* Blue print plans.

Common Brick Manufacturers' Assn., 2121 Title Guarantee Bldg., Cleveland, O.
City and Farm House Plans. (See listings under Brick.)

Contractors Plan Service Co., Box 115, Dayton, O.
5251. *Plan Books.* Descriptive literature.

Keith Corp., 100 N. 7th St., Minneapolis, Minn.
3602. *Keith's Magazine.* Monthly. Subscription offer of $3.25 includes 278-page De Luxe edition, "Beautiful Homes."

Stevenson, R. L., 521 Paddock Bldg., Boston, Mass.
4671. *Homes of Character.* Folder. 4 pp. Illus. Describes the book, "Homes of Character," containing 100 designs of houses from $5,000 to $20,000, with floor plans, etc. Price of books, $2.00 de Luxe edition; $1.00 paper bound.

Stillwell, E. W., & Co., 270 California Bldg., Los Angeles, Cal.
4691. *All-American Homes.* 50 houses, 7 to 10 rooms. $1.00.
4692. *The New Colonials.* 50 houses, 6 to 10 rooms. $1.00.
4693. *Southwest Stucco Homes.* 75 duplexes to bungalows. $2.00.
4694. *Little Bungalows.* 75 houses, 3 to 5 rooms. $1.00.

PLASTER BASE—See Stucco Base, also Lath

PLASTER BOARD—See Wallboard

PLUMBING EQUIPMENT—See also Bathroom Fixtures

Alberene Stone Co., 153 W. 23d St., New York.
2033. *Illustrated literature* on soapstone kitchen sinks.

Chemical Toilet Corp., 801-21 Free St., Syracuse, N. Y.
5641. *Sani-Equip Septic Tanks and Waterless Toilets.* Booklet. Illus. Describes a chemical toilet installation

Crane Co., 836 S. Michigan Ave. Chicago.
2841. *Plumbing Suggestions for Home Builders.* 80 pp. Illus.
2842. *Plumbing Suggestions for Industrial Plants.* 44 pp. Illus.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.

B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.

Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
8631. *Kenney Curtainless Shower.* Catalog A. Illus.

Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4283. *Penberthy Injectors.* Series of folders. Illus. Describe various types and models.
4284. *Washing Machine Drainer.* 4 pp. Illus. Explains how product is used with faucet attachment.
4285. *Safeguard Water Gage.* 4 pp. Illus.
4281. *Automatic Cellar Drainer.* Folder. 8 pp. Illus. Gives prices.
4289. *Sales Talks.* Semi-monthly pamphlet for jobbers.

PORCHES

Thomas J. Malia, 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes porch enclosures, metal weather strips and rust-proof fly screens.

Weisse Mfg. Co., La Crosse, Wis.
4991. *Literature.* Describes combination glass and screen enclosed porches.

PUMPS

C. H. & E. Manufacturing Co., Clinton & Mineral Sts., Milwaukee, Wis.
2582. *Power-Driven Diaphragm, Road, and Centrifugal Pumps.* Litature. Illus.

Dayton Pump & Mfg. Co., Dayton, O.
2901. *Catalog.* Describes their pumps for light and heavy work.

Fairbanks, Morse & Co., 909 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets. Directs attention of builders and architects to home water systems.

Flint & Walling Mfg. Co., Kendallville, Ind.
3091. *Running Water Under Pressure.* Catalog No. 115. 48 pp. Illus. Deals with water systems, including pumps, tanks, etc.

Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 57. 414 pp. Illus.

PYROBAR GYPSUM TILE

United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletin PT3.* Architectural data, *Pyrobar* partition tile.

RADIATORS

American Radiator Co., 40 W. 40th St., New York.
2164. *"Corto, the Radiator Classic."* 16 pp. Illus.
2161. *The Ideal Fitter.* 21st edition of hand book. 346 pp. Illus. Contains tables and specifications concerning radiator fitting.
4834. *Triton Plan U. S. Radiators.* Illustrated booklet. 23 pp.

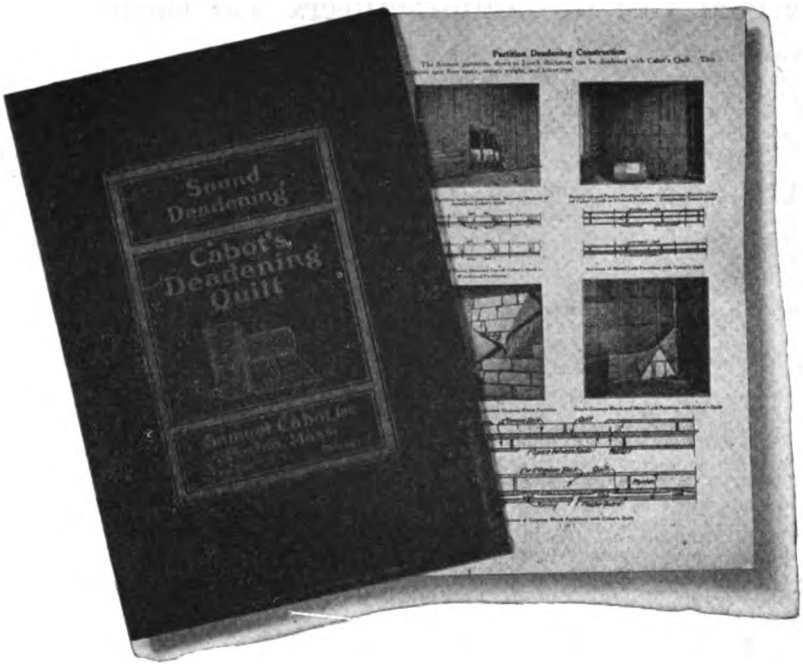
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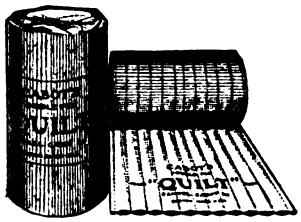
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Selected List of Manufacturers' Literature

(Continued from page 160)

RADIO PRODUCTS

Mast Lightning Rod Co., W. Milton, O.
5571. *Mast Radio Connectors.* Catalog No. 4. Deals with sectional form of lightning rod for aerial use.

Penberthy Injector Co., Holden Ave., and Grand Trunk Ry., Detroit, Mich.
4286. *Radio Apparatus.* Series of folders. Illus. Describe *Penberthy* head phones, loud speakers, crystal sets, etc.

Pole & Tube Works, Inc., Newark, N. J.
4231. *Flag Poles and Radio Mast.* Provide designs.

RANGES—See also Heating Equipment

American Heating & Lighting Co., Morenci, Mich.
2133. *Clark Jewel Stoves.* 12 pp. Illus. For use with cold process gasoline gas.

American Stove Co., Lorain, O.
2191. *Catalog No. 94.* Illus. 70 pp. Describes *Clark Jewel Gas Stoves* with *Lorain Heat Regulator.*
2192. *Catalog No. 95.* Illus. 24 pp. *Direct Action Oil Stoves* with *Lorain High Speed Burner.*
2194. *Catalog No. 97.* Illus. 24 pp. Gives information on direct action coal ranges.
2195. *Catalog No. 117.* Illus. 42 pp. Describes *Clark Jewel* oil and gasoline stoves with *Lorain* burners.

Buffalo Co-operative Stove Co., Buffalo, N. Y.
5822. *Literature.* Describes complete line.

Ohio State Stove & Mfg Co., 666 Lakeshore Drive, Chicago.
4231. *The Kab Range.* Catalog BA-3. Illus. Describes a combination of the *Packer All-Steel Kitchen Cabinet* and *Ranges.*

Standard Gas Equipment Corp., 18 E. 41st St., New York.
4621. *Vulcan Gas Ranges and Appliances.* Catalog 48. Illus.
4622. *Vulcan Gas Equipment* for Hotels, Hospitals, Restaurants, etc.
4623. *The Vulcan Bulletin.* Monthly house organ.
4624. *How Kitchen Space Was Saved in Planning.* Practical specification folder with plans.
4625. *Oriole Gas Ranges.* Catalog. 50 pp. Illus.

Thatcher Co., 39 St. Francis St., Newark, N. J.
4764. *Catalog.* Illus. Gives information relating to their ranges.

REFRIGERATORS

Herrick Refrigerator Co., Waterloo, Ia.
3371. *Refrigerators.* 56 pp. Describes various types.

REGISTERS

Hart & Cooley Co., Inc., New Britain, Conn.
3862. *Refrigerators for Hotels, Clubs, and Restaurants.* Catalog.
3302. *Registers.* Catalog No. 24. Illus. Contains complete list.

Majestic Company, Huntington, Ind.
3904. *Majestic Line.* Various items of Malleable Iron and Copper Steel.

Tuttle & Bailey Mfg. Co., 2 West 45th St., New York.
4802. *Tanbo Antique.* Sample of this finish for registers.

ROOF INSULATION—See Insulation

ROOFING MACHINERY

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.

Hansen Co., L., 2303 Ward Ave., Kansas City, Mo.
3281. *Roofing Tile.* Bulletin. Explains use of Hansen machines.
3282. *Circular.* Describes roof tile making machinery.

ROOFING MATERIALS

American Insulation Co., Roberts Ave. and Stokley St., Philadelphia.
2142. *Make Your Next Roof Last.* 6 pp. Illus. Deals with *Eternit* asbestos shingles.
2143. *Building a Roof That Beautifies and Lasts.* 22 pp. Illus

American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
2186. *Better Buildings.* Catalog. 32 pp. Describes corrugated and formed sheet steel roofing and siding products.
2187. *Copper—Its Effect Upon Steel for Roofing Tin.* Catalog. Illus.

Asbestos Shingle, Slate & Sheathing Company, Ambler, Pa.
2281. *Ambler Asbestos Shingles.* Catalog. 44 pp. Illus.
2282. *Ambler Asbesto Corrugated Roofing and Siding.* Catalog.
2284. *Engineer's Data Sheets.* 40 pp. Illus. Specifications.

Barrell Co., Wm. L., of N. Y., Inc., 50 Leonard St., New York.
2361. *Con-ser-tex Canvas Roofing.* Describes treated fabric used for roofing, with directions for laying.

Barrett Co., 40 Rector St., New York.
2371. *Better Home for Old Houses.* Shows common type of old houses. Contains suggestions from leading architects.
2372. *Barrett Roofings for Every Purpose.* Folder.
2373. *Barrett Special Products.* Folder.
2374. *Barrett Giant Shingles.* Folder.
2375. *Barrett Specialties.* Booklet.
2376. *Handbook.* 96 pp. Describes products.

Beaver Products Co., Inc., Buffalo, N. Y.
2401. *Catalog.* Illus. Describes their shingles, roll roofing, etc.
2402. *Literature.* Describes plan for repair and remodeling work on time payment plan.

Beckman-Dawson Roofing Co., 11 W. Jackson Blvd., Chicago.
2411. *Shelter.* Booklet. 16 pp. Illus. Takes up development of roofing material from primitive times to today.
2412. *Asphalt Shingles.* Series of folders. Deal with tests and application of *Winthrop* tapered shingles.

Bird & Son, East Walpole, Mass.
2453. *Liquid Roof Coating.* Folder. 4 pp. Illus. Explains use as protectant. Includes description of plastic cement.

Boyle & Co., John, Inc., 112 Duane St., New York.
2051. *Prepared Canvas.* 4 pp. Illus. Concerns *Bayonne* roof and deck cloth. Includes prices.

Carey Co., Philip, 520-540 Wayne Ave., Cincinnati, O.
2641. *Before You Build.* Booklet. Discusses use and qualities of *Asfaltslate.* Sample sent.

Certain-teed Products Corp., 100 E. 42nd St., New York.
2673. *Certain-teed Roofs.* Literature. Includes color cards, prices.

Cortright Metal Roofing Co., Philadelphia, Pa.
2831. *Cortright Metal Shingles.* Booklet. 8 pp. Illus.
2832. *Catalog.* Illus. Deals with metal shingle roofing.

Edwards Manufacturing Co., Cincinnati, O.
2991. *Edwards Metal Roofing, etc.* Catalog. 224 pp. Illus. Covers complete line of *Edwards* products.

Holorib, Inc., Cleveland, O.
5761. *Insulated Roofs.* Catalog. Takes up roof sheets of steel fabricated by special process.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.

Johns-Manville, Inc., 292 Madison Ave., New York.
35512. *Asbestos Roofing.* 4 pp. Illus. Takes up *Brooks Brand,* white top roofing.
35513. *Rocks or Rags.* 14 pp. Illus. Tells of material used in *J-M* shingles.
35515. *Ready-to-Lay Roofing.* 16 pp. Ill.

Keystone Roofing Mfg. Co., York, Pa.
3661. *A Distinctive Roof.* Booklet. Describes application of *Hexo-Diamond* slate-coated asphalt shingle. Includes sample.

Knickerbocker Slate Corporation, 153 E. 38th St., New York.
3701. *Slate.* Booklet. 16 pp. Illus.

Malleable Iron Fittings Co., Branford, Conn.
5311. *Nail Knowledge.* Booklet. Illus. 16 pp. Gives data on their zinc coated, rust-proof shingle and slating nails.

Milwaukee Corrugating Co., Milwaukee, Wis.
4006. *Milcor Slate Roofs.* 12 pp. Illus. *Titelock Metal Tile.*
4007. *Milcor Roofs of Permanent Beauty.* 4 pp. Illus. Shows use of Milcor Spanish Tile.

Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City, N. J.
4121. *Shingles That Last.* Illus. Offers various types of metal and asbestos shingles and roofing material.
4122. *Metal Shingles, Spanish Metal Tile, and Metal Roofing.* Literature. Illus.

Nelson Mfg. Co., B. F., Minneapolis, Minn.
4131. *Quality Roofs.* Folder. 12 pp. Illus. Deals with *Nelson Master Slab Roof.* Includes plates in color and samples.

New Jersey Zinc Co., 160 Front St., New York.
4155. *Standing Seam Horse Head Zinc Roofing.* Folder. Includes instructions for laying details, and data.
4157. *The Roof That Is Ever New.* Folder. Illustrated.

Richardson Co., Lockland, Cincinnati, O.
4411. *Biskalt Membrane Roofs.* 36 pp. Contains specifications for applying membrane roof over boards and concrete.
4412. *Roofs of Distinction.* Illus. catalog. 20 pp. Discusses roofing problems, weather defense, etc.
4413. *Lok-Lap Asphalt Shingles.* Illus. 10 pp. Describes laying of this shingle in various designs.
4414. *What Color for the Roof?* Illus. booklet. 19 pp. Takes up uses of *Multicrome* roofs in various styles and types.

Ruberoid Co., 95 Madison Ave., New York.
4481. *Ru-ber-oid Facts Worth Knowing.* Illus. Booklet. 20 pp.
4482. *Eight Folders.* Series of 8. Deals with strip shingles, roofing, liquid fibre-cement, roof coating, etc.

Stearns Lumber Co., A. T., 87 Taylor St., Neponset, Boston.
4642. *Cypress Lumber and Its Uses.* Booklet. Illus. 48 pp.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4819. *Bulletin R127.* Architectural data. *Pyrobar* construction.
4813. *Bulletin SP2. Sheetrock Pyrofill* roof and floor construction.

Vendor Slate Co., Inc., Easton, Pa.
4861. *A Book for Architects.* Illus. Catalog. 24 pp.
4862. *Vendor Book of Roofing, Slate for Architects.* Illus. 44 pp.

Weatherbest Stained Shingle Co., Inc., 145 Main St., North Tonawanda, N. Y.
4961. *Book.* Describes *Weatherbest Thatched Effect Roof Construction.* Also, a set of samples showing *Weatherbest* colors.
4963. *Book.* Devoted to remodeling of old homes.

Wheeling Corrugating Co., Wheeling, W. Va.
5032. *Descriptive literature.*

Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad.* Literature. Describes lead coated sheets, roofing, shingles, spouting, gutter, etc.

ROOF TRUSSES

McKeown Bros. Co., 21 E. 40th St., New York.
3871. *Clear Floor Space.* Folder. 4 pp. Takes up various types of trusses used in building construction.

ROUTERS AND CARVERS—See Woodworking Machinery

RULES—See Drafting and Surveying

SALAMANDERS

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
29512. *Donley Salamanders.* Leaflet. Illus.

SANDERS—See Floor Surfacing Machinery

SANITAS—See Wall Covering

SASH BALANCES—See Hardware, Window

SASH CORDS

Bayley Co., Wm., Springfield, O.
2837 *Bayley-Springfield Operators.* Booklet P19. 8 pp. Illus.

Samson Cordage Works, 88 Broad St., Boston, Mass.
4501. *There Is a Difference in Sash Cord.* Folder. Illus. Describes *Spot* sash cord and *Phoenix* sash cord.
4502. *Catalog.* Includes samples of sash cord.

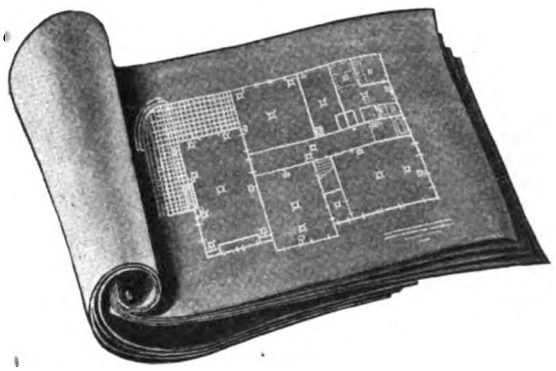
SAW FILES AND SETTERS

Atkins & Co., E. C., Indianapolis, Ind.
2301. *Saws, Saw Tools and Machine Knives.* Catalog. 272 pp. Illus.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2345. *Descriptive literature.* Illus.

Foley Saw Tool Co., 912-18 E. Lake St., Minneapolis, Minn.
3101. *Foley Automatic Saw Filer and One-Minute Rotary Saw Setting Tool.* Folder. 12 pp. Illus.

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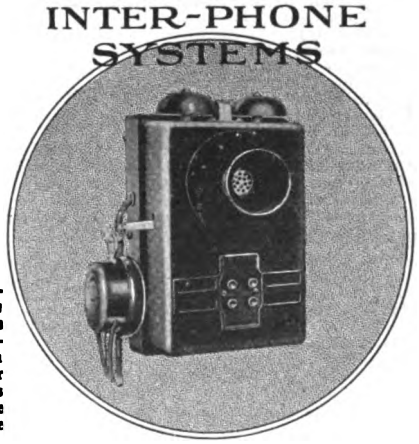
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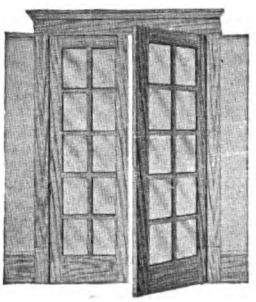
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Selected List of Manufacturers' Literature

(Continued from page 162)

SAWS & SAW MACHINERY—See Woodworking Machinery

SAW RIGS—See Woodworking Machinery

SCAFFOLDING—See also Brackets

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.
3173. *Gabriel Scaffolding.* Descriptive literature.

Steel Scaffolding Co., Evansville, Ind.
4651. *Catalog C.* Illus. 16 pp. Describes *Trouble-Saver* Steel Scaffolding, giving prices.
4652. *Adjustable Steel Scaffolding.* Descriptive matter.
4653. *Sectional Steel Scaffolding.* Folder. Illus.
4654. *Steel Trestles.* Folder. Illus. Descirptive.
4655. *Roofing Brackets.* Describes several types. Folder.
4656. *Sheathing Brackets.* Leaflet. Illus.

SCHOOLS

Chicago Tech College, 1038 Chicago Tech. Bldg., Chicago.
2711. *How To Read Blue Prints.* Booklet. Illus. Includes set of blue print plans.
2712. *Trial Lesson.* Includes blue prints and description of home-study course in architectural drafting.

Tyrean Institute, Palmer, Mass.
5841. *What About Your Future?* Booklet. Offers courses by mail in "Man-Power Engineering" and "Construction Management."
5842. *Your Chance to Make Good.* Booklet. Deals with three courses by mail. "Man-Power Engineering," "Advertising and Sales Management" and "Construction Management."

SCRAPERS

Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus.

SCREEN MANUFACTURERS' MACHINERY

DeWalt Products Co., Leola, Lancaster, Pa.
2943. *DeWalt Machinery.* Folder. 4 pp. Illus. Takes up application of this machine for screen manufacture.

Markwell Mfg. Co., 176 Franklin St., New York.
3941. *Markwell Catalog.* 30 pp. Illus. Describes various appliances for the sash and screen maker.
3942. *Screens for Profit.* Folder. 4 pp. Illus.

SCREENS

American Brass Co., Waterbury, Conn.
2094. *Screens that Meet the Test.* Booklet. 16 pp. Illus. Describes development of screening from historical angle. Discusses use of *Antique* or *Golden Bronze* wire screens.

American Wire Fabrics Co., 208 S. La Salle St., Chicago.
2221. *Catalog of Screen Wire Cloth.* Illus. Deals with line of black enamel, galvanized, American bronze screen cloth.
2222. *Monel Metal Screen.* Folder. 8 pp. Illus
2223. *Wire Cloth Table.* Shows number sq. ft. per roll and sq. ft. in various widths and lengths.

Dennis & Co., W. J., 2110 W. Lake St., Chicago.
2912. *Dennis Screen Moulding.* Describes product for use in the making of screens.

Gilbert & Bennet Mfg. Co., 937-9 1st Nat'l Bank Bldg., Chicago.
3241. *Pearl Wire Cloth.* Contains description and samples.

Malin, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes rust-proof fly screens, porch enclosures and metal weather strips.

New Jersey Wire Cloth Co., Trenton, N. J.
4141. *A Matter of Health and Comfort.* Booklet. Illus. Discusses use of *Jersey* copper insect screen cloth. Includes samples.

Wickwire Spencer Steel Corp., Worcester, Mass.
5082. *Hardware Products.* Devotes section to screen cloth.

SEWAGE DISPOSAL—See Plumbing Equipment

SHADES AND SHADE ROLLERS

Red Tip Roller Co. (formerly Edstrom, Wetmore & Henderson), Warren, Pa.
2981. *Automatic Stop Shade Rollers.* Descriptive literature.

SHAFTS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2346. *Flexible Shafts.* Bulletin. Illus.

SHEATHING—See Insulation, also Stucco Base

SHEATHING PAPER—See Building Paper

SHELVES

Garden City Plating & Mfg. Co., 1430 S. Talman Ave., Chicago.
3191. *Adjustable Shelves.* Literature. Includes samples.

SHINGLES—See Roofing Materials

SHINGLE STAINS—See Paints, Stains, Varnishes.

SHOWERS—See also Plumbing, also Bathroom Fixtures.

Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
3631 *Kenney Curtainless Shower.* Catalog A. Illus.

SKYLIGHTS

American 3-Way Luxifer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2203. *3-Way Ventilating Skylights.* 4 pp. Illus.
2204. *Steelrad.* Describes puttyless, metal skylight construction.
2205. *3-Way Reinforced Concrete.* Discusses concrete and glass.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Milwaukee Corrugating Co., Milwaukee, Wis.
4008. *Milcor Guide.* Illus. Explains details of *Puttyless Skylight.*

SLATE—See also Roofing Materials

Knickerbocker Slate Corporation, 153 E. 38th St., New York.
3701. *Slate.* Booklet. 16 pp. Illus. Deals with roofing and structural slate and blackboards.

Structural Slate Co., Pen Argyl, Pa.
4701. *Structural Service Data and Standards.*
4702. *Plumbing Catalog.* Deals with slate for the contractor.

Vendor Slate Co., Inc., Easton, Pa.
4861. *A Book for Architects.* Illus. Catalog 24 pp.
4862. *The Vendor Book or Roofing Slate for Architects.* Illus.

SOUND DEADENING MATERIAL—See Insulation

STAIR TREADS

Alberene Stone Co., 153 W. 23d St., New York.
2034. *Illustrated Literature* on stair treads of soapstone.

Norton Co., Worcester, Mass.
4211. *Norton Floors.* Booklet. 24 pp. Describes the several types of *Alundum* floor with reference to their applications.
4212. *Norton Floors.* Monthly House Organ. 4 pp. Illus.
4213. *Alundum Safety Tile.* Booklet. 38 pp. Presents one type.

Safety Stair Tread Co., Wooster, O.
4491. *Wooster Safe-Groove Stair Treads.* Catalog. Describes these treads and thresholds and security nosing made of white brass, brass and black steel.
4492. *The Wear on Stairs.* Catalog. Deals with methods of repairing worn stairs.
4493. *Stair Nosing, Wooster Security Nosing.* Catalog. Describes method of protecting edges of various flooring materials.

Universal Safety Stair Tread Co., 40 Court St., Boston.
5381. *Universal Safety Tread.* Booklet. Discusses installations on cement, metal or wood steps.

Wright Rubber Products Co., Racine, Wis.
5141. *Illustrated Folder.* Describes their rubber stair tread.

STAIRWAYS, MOVABLE

Bessler Movable Stairway Co., Akron, O., or 103 Park Ave., New York.
2431. *Don't You Wish You Had More Room?* Bulletin. 8 pp. Illus. Explains use of disappearing stairway to attic.

Farley & Loetscher Mfg. Co., Dubuque, Ia.
5201. *Presto Sliding Stairs.* Descriptive literature. Includes prices.

STANDARD BUILDINGS—See Building Construction

STORE FRONTS

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Kawneer Co., 225 Front St., Niles, Mich.
3596. *Contractors' Design Book.* 128 pp. Illus. Presents selected list of store front designs.
3597. *Details Kawneer Solid Copper Store Front Construction.* Catalog L, 1925 edition. 32 pp. Illus. Comprises a treatise on installation of Kawneer solid copper store front.

Zouri Drawn Metals Co., 1608 East End Ave., Chicago Heights, Ill.
5151. *Getting People In.* Booklet. Illus. Gives plans and diagrams. Shows methods of arranging window display space.
5152. *Zouri Store Fronts.* Booklet. Illus. 1 pp.

STOVES AND RANGES—See Ranges, Heating Equipment

STUCCO—See also Cement

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2463. *Bishopric for All Time and Clime.* Booklet. Illus. 44 pp.
2461. *Bishopric Lunfast Finish.* Folder. Illus.
2467. *Old Colony.* Booklet. Describes this stucco.

Flint Rock Stucco Co., Arcade Bldg., Dayton, O.
5682. *Flint-Rock All-Mineral Stucco.* Catalog. Illus. Describes Oxy-Chloride Cement.
5683. *Architex Finish.* Catalog. Illus. Describes specially prepared colored stucco finish coat.

Lehigh Portland Cement Co., 30 E. 42nd St., New York.
3771. *Build the Castle of Your Dreams.* 32 pp.
3772. *Permanent Satisfaction in Your Building.* Illus. Book.
3773. *The Lehigh Magazine.* New House Monthly.

Master Builders Co., Cleveland, O.
5321. *Booklet.* Describes *Mastertex,* their water-proofing paint for stucco, concrete, etc.

Muller, Franklyn R., Inc., Waukegan, Ill.
4053. *Asbestone.* 16 pp. Illus. Shows details and pictures of installation of *Asbestone* magnesite stucco.
4054. *Instructions for applying Asbestone stucco.* 8 pp. Illus.

Portland Cement Assn., 111 W. Washington St., Chicago.
4353. *Portland Cement Stucco.* Bulletin. Illus. Contains data on materials, proportion, etc., and discusses approved practices.

Rocbond Co., Van Wert, O.
4461. *Better Homes.* Illus. Booklet. Describes properties of Rocbond Stucco for exterior surfaces.
4462. *Homey Homes.* Illus. Booklet. 20 pp. Shows houses of different kinds in which Rocbond Stucco has been used.

United States Gypsum Co., 205 W. Monroe St., Chicago.
48115. *Oriental Stucco Handbook, OS3.* Illus. in color and sepia.
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.

STUCCO AND PLASTER BASES

Armstrong Cork & Insulation Co., 197 24th St., Pittsburgh.
5531. *Armstrong Corkboard.* Bulletins. Illus. Material includes structural details and method of laying as a plaster base.

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2468. *Bishopric for All Time and Clime.* Catalog. Illus. 42 pp.

Bostwick Steel Lath Co., Niles, O.
2481. *Bostwick Economy.* Literature on Bostwick Metal Laths.

Celotex Company, 111 W. Washington St., Chicago.
2661. *Your Home.* Catalog. Gives information concerning *Celotex,* and deals with homes. Price, 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.

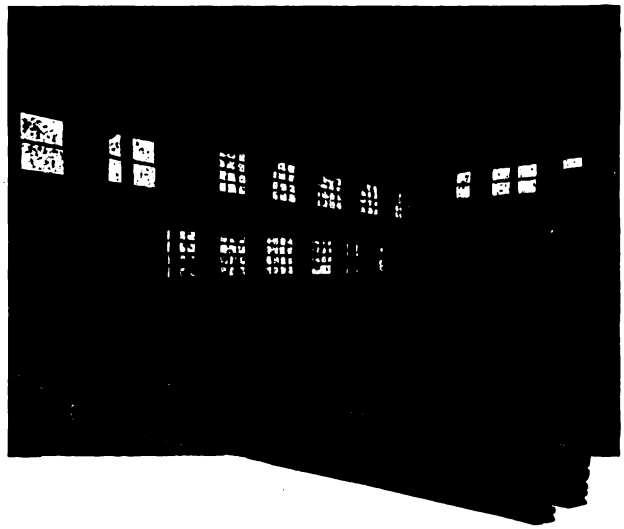
Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

Flaxlinum Insulating Co., St. Paul, Minn.
3083. *Standard Specifications.* File 19G. Illus. Contains specifications for insulating with Flax-li-num Keyboard.

Flint Rock Stucco Co., Fourth St., Arcade Bldg., Dayton, O.
5681. *Keylock Base.* Literature. Describes waterproof, fibre base wood strip product for stucco and plaster.

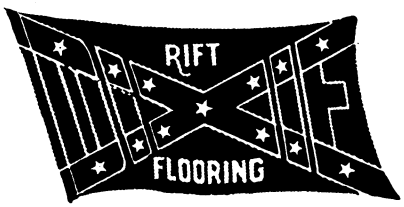
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Selected List of Manufacturers' Literature

(Continued from page 164)

General Fireproofing Co., Youngstown, O.
3229. *Herringbone Rigid Metal Lath.* Catalog. 48 pp. Illus.
32211. *Trussit.* Booklet. 16 pp. Illus. Also folder. 16 pp. Illus. Describes reinforcement for partitions and curtain walls.
32212. *GF Diamond Rib Metal Lath.* Booklet. 8 pp. Illus.

Milwaukee Corrugating Co., Milwaukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.

New Jersey Wire Cloth Co., Trenton, N. J.
4142. *Roebling Wire Lath.* Catalog. 30 pp. Illus.

NorthWestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4201. *NorthWestern.* General Catalog. 16 pp. Illus. Covers complete line of *NorthWestern* products including *Kno-Burn* metal lath, *Longspan Plasta-Saver*, *Nemco* channels.
4202. *Home Building.* Booklet. 32 pp. Illus.
4204. *Better Plastering.* Booklet. 12 pp. Illus.

Sykes Metal Lath Co., Niles, O.
4731. *Metal Lath for All Purposes.* Illus. Booklet. 20 pp. Contains information pertaining to their metal lath
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with metal lath and steel building specialties, with specifications and details

Truscon Steel Co., Youngstown, O.
4799. *Hy-Rib and Metal Lath.* Catalog. Illus. 64 pp. Gives properties of laths, specifications, special uses and views.

United States Gypsum Co., 205 W. Monroe St., Chicago.
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.

Wheeling Corrugating Co., Wheeling, W. Va.
5032. Descriptive literature.

Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes specifications for using wire lath.

SURVEYORS' INSTRUMENTS—See Drafting and Surveying

TELEPHONES—See also Electrical Equipment

Western Electric Co., New York.
5001. *Inter-Phones Systems.* Descriptive literature.

THERMOSTATS—See Heating Equipment

TILES, FLOOR AND WALL

Lloyd Floor and Wall Tile Co., P. O. Box 5064K, Kansas City, Mo.
5881. *Tile Catalog.* Describes Ceramic Mosaic Floor Tiles, Glazed Wall Tiles and tile trimmings sold direct.

TILE MANUFACTURE

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.

TILE, STEEL

General Fireproofing Co., Youngstown, O.
32215. *GF Steel Tile.* Catalog. 32 pp. Illus.

Milwaukee Corrugating Co., Milwukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.

TOOLS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2344. *Hammers.* Bulletin. Illus.

Combination Blow Torch Mfg. Co., 2805 W. Van Buren St., Chicago.
5591. *Literature.* Describes combination blow torch soldering and branding iron.

Everhot Manufacturing Co., Maywood, Ill.
3033. *Everhot Soldering Irons.* Descriptive literature.
3034. *Everhot Hammers.* Descriptive literature.
3036. *Everhot Shovels.* Descriptive literature.

Koehring Co., 31st and Concordia Sts., Milwaukee, Wis.
3712. *Koehring Booklet.* Lists complete line of products.

Mack Tool Co., Inc., W. Commercial St., East Rochester, N. Y.
3881. *Catalog and Price List.* 20 pp. Illus. Contains complete line of *D. R. Burton* planes, gouges, hatchets, etc.

Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.
4171. *General Catalog.* No. 10. Illus. Presents complete line.

Progressive Mfg. Co., Torrington, Conn.
4361. *Forster Bits.* Booklet. Illus. Contains specifications.

Sargent & Co., New Haven, Conn.
4523. *Sargent Standard Steel Squares.* Booklet. 32 pp. Illus.
4524. *Sargent Planes.* Catalog. 64 pp. Illus.

Swan Co., James, Seymour, Conn.
4711. *Catalog.* 104 pp. Describes *Premium Mechanic's Tools.*
4712. *Booklet.* Illus. 32 pp. Lists and briefly describes tools.

Star Expansion Bolt Co., 147 Cedar St., New York.
5331. *Literature.* Describes *Dryvins*, their expansion shield.

White Co., L. & I. J., Buffalo, N. Y.
5061. *Catalog* 19A. Describes carpenters' tools.
5062. *Catalog* 20B. Describes coopers' tools.
5063. *Several Folders.* Deal with high speed knives.

TOOLS, AIR

Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.
2791. *Berg Electric Air Cushion Hammer.* 6 pp. Illus.

TOOLS, EDGE

Atkins & Co., E. C., Indianapolis, Ind.
2301. *Saws, Saw Tools and Machine Knives.* Catalog. 272 pp.

Everhot Manufacturing Co., Maywood, Ill.
3035. *Everhot Hatchets.* Descriptive literature.

Fox Supply Co., Brooklyn, Wis.
3164. *Scraping Knives.* Descriptive literature. Describes floor scraping knives, furnishing tools, and hand scrapers.

Mack Tool Co., Inc., W. Commercial St., East Rochester, N. Y.
3881. *Catalog and Price List.* 20 pp. Illus. Contains complete line of D. R. Barton planes, gouges, hatchets, etc.

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5062. *Catalog* 20B. Describes coopers' tools.
5063. *Several Folders.* Deal with high speed knives.

TOOLS, MARKING—See Marking Devices

TRAPS—Steam and Radiator

Johns-Manville, Inc., 292 Madison Ave., New York.
35516. *Steam Traps.* Catalog. 8 pp. Illus. Includes specifications.

TRANSITS—See Drafting and Surveying

TRESTLES—See Scaffolding

TRUCKS—MOTOR

Ford Motor Co., Detroit, Mich.
3121. *Power & Haulage.* Monthly Magazine. Contains information on *Fordson* tractor and *Ford* truck.
3122. *The Fordson.* Magazine.

TRUCKS, MOTOR—SUPPLIES

Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4287. *Ball & Ball Carburetor.* 8 pp. Illus. Shows details.
4288. *Lubricating Devices.* 2 folders. Describe priming caps.

TRUSSES—See Roof Trusses

VALVES—See also Plumbing Equipment

Crane Co., 836 S. Michigan Ave., Chicago.
2844. *Steam Pocket Catalog. No. 50.* 775 pp. Illus.

VAULT LIGHTS

American 3 Way-Luxfer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2207. *Daylight.* 16-pp. 3 Way-Luxifer armored sidewalk lights.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

VENEER AND VENEERING

American Plywood Corp., New London, Wis.
2151. *Plywood Stock List.* Concerns panels for built-in work.

Wheeler, Osgood Co., Tacoma, Wash.
5023. *Leaflet.* Describes *Laminex* panels.
5021. *Laminex Book.* For architects and the building trade.

VENTILATION AND VENTILATORS

Globe Ventilator Co., Dept. L, Troy, N. Y.
3261. *Globe Ventilator* and *Globe Chimney Cap.* Provide specifications on contract work.

Milwaukee Corrugating Co., Milwaukee, Wis.
4009. *Nu-Air and Milwaukee Stationary Ventilators.* 16 pp. Illus.

Riesner, Benjamin, 260 E 78th St., New York.
5791. *Riesner Ventilation Brick.* Folder. Illus. Describes standard size iron brick for ventilating.

Washburne & Co., E. G., 207 Fulton St., New York.
4932. *Descriptive Price List* of *Rotary Exhaust Ventilators.*

WALLBOARD

Asbestos Shingle, Slate & Sheathing Co., Ambler, Pa.
2285. *Descriptive Matter.* Illus. Deals with *Linabestos.*

Beaver Products Co., Inc., Buffalo, N. Y.
2403. *Folder.* Illus. Describes uses and methods of handling *Beaver Board.*

United States Gypsum Co., 205 W. Monroe St., Chicago.
48111. *Gyplath.* Catalogue Ga.
48112. *Architects' Specifications for Gyplath.*
48117. *Sheetrock Catalog.* Bulletin WB61.
48118. *Sheetrock Tile Board.* Folder WB61.

Upson Co., Lockport, N. Y.
4851. *Walls & Ceilings of Enduring Charm.* Illus. Booklet. 16 pp.
4852. *The Snow White Lining.* Illustrated catalog. 16 pp. Describes Upson Fibre Tile used in bathrooms and kitchens.
4853. *4-Page Folder.* Contains description of the Upson Blue Book of working plans and sketches for interior finishing with Upson Board. Blue Book is distributed to lumber dealers for use by builders. Single blue prints, price 25 cents.
4854. *The Upsonizer.* Periodical. 24 pp. Illus.

WALL COVERING

Morene Products Co., Inc., 241 W. 28th St., New York.
5371. *Morene, the Wall Finish Distinctive; a Portland Cement Product—Atlas White.* Brochure. Illustrated. Shows examples of *Morene* used for ceiling and mural decorations.

Standard Textile Products Co., 320 Broadway, N. Y.
4631. *Book of Samples in Color.* Shows design and texture of Sanitas, their sanitary cloth wall coverings.

WATER GAUGES—See Plumbing Equipment

WATER HEATER

American Heating & Lighting Co., Morenci, Mich.
2132. *How to Install a Water Heater.* 8 pp. Illus. Deals with cold process gasoline gas heaters.

Crane Co., 836 S. Michigan Ave., Chicago.
2843. *Crane Water Heater.* Booklet. Illus.

Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, and pneumatic waterworks fields.

Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4282. *Noiseless Water Heater.* 4 pp. Illus. Includes specifications.

Richardson & Boynton Co., 260 5th Ave., New York.
5223. *The Richardson Manual.* 419 pp. Illus. Gives data on "Richardson" Boiler for steam, hot water and vapor system, "Perfect" Warm-Air and Pipeless Furnaces, tank heaters and ranges.
5221. *Richardson Hot Water Heater. Describes Galvoxide Water Section* for use in connection with the *Richardson.*
5222. *Your Store.* This and another Booklet, for dealers.

Riverside Boiler Works, Inc., 491 Main Street, Cambridge, Mass.
5891. *Literature.* On storage boilers, furnace boilers and water heaters.

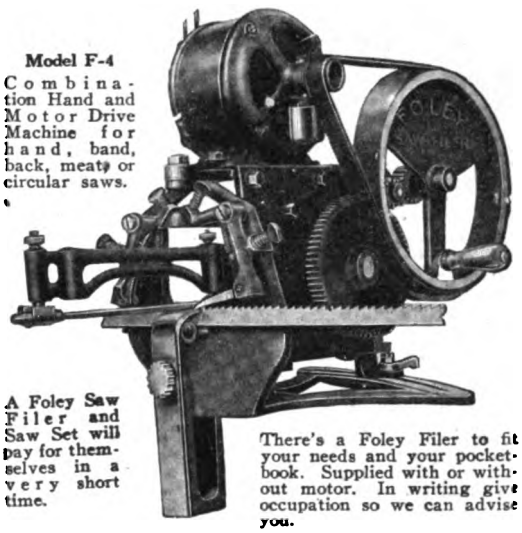
Standard Gas Equipment Corp., 18-22 E. 41st St., New York.
4626. *Vulcan Gas Water Heater.* Booklet. Illus.

WATERPROOFING—See also Dampproofing

Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Points and Insulating Paper.*

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A Foley Saw Filer and Saw Set will pay for themselves in a very short time.

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YOU won't have to worry about making money this winter if you have a Foley Automatic Saw Filer. With this machine you can turn out as much work as six men filing by hand, and every job will be so perfect that hand labor cannot compete with you. The Foley Automatic Saw Filer handles hand, band, back, meat, circular and other saws. Read the letters below and see how accurate this wonderful machine is. Teeth guaranteed not to vary 1/1000th of an inch—that will bring you repeat business.

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Norwich, Conn.

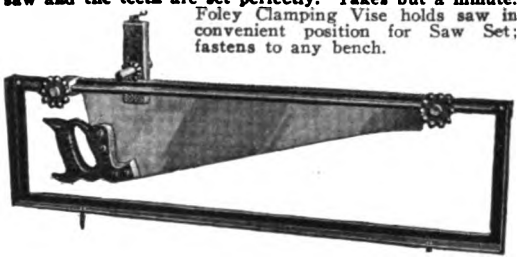
"I am greatly pleased with the work your Model F-5 Filer is doing, also the saw set. Our saws now cut perfectly and I wish to thank you for keeping after me until you made a sale."
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528 N. Alexandria Ave.,
Los Angeles, Cal.

"I have used your Saw Set a great deal and am very much pleased with the service it has given me, and want to thank you many times for your wonderful machine."
R. L. Whitney,
Hooper, Nebraska.

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One pull of the Foley Rotary Saw Set the length of a saw and the teeth are set perfectly. Takes but a minute.

Foley Clamping Vise holds saw in convenient position for Saw Set; fastens to any bench.



Filing the Foley Way Pays Big

With a Foley Automatic Saw Filer and Rotary Saw Set you can give quick and accurate service. Remember that you get 50c or more for filing a saw, and $1.00 or $1.25 for retoothing a saw. You can take any old saw and give it a better cutting edge than when new.

Send For the Facts

We'll be glad to send you copies of letters that Foley users write us, telling what they think about Foley Tools and the wonderful work they do. Send for all the facts—no obligation on your part.

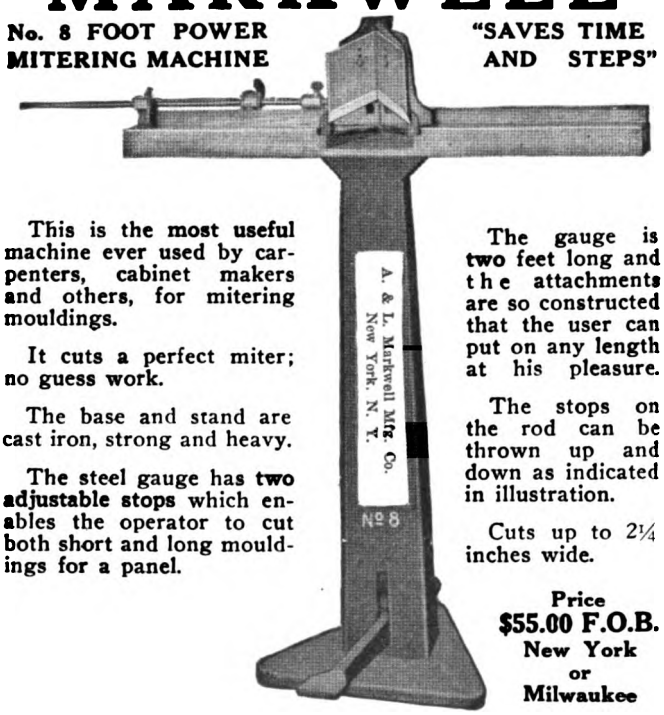
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"SAVES TIME AND STEPS"



This is the most useful machine ever used by carpenters, cabinet makers and others, for mitering mouldings.

It cuts a perfect miter; no guess work.

The base and stand are cast iron, strong and heavy.

The steel gauge has **two adjustable stops** which enables the operator to cut both short and long mouldings for a panel.

The gauge is **two feet long** and the attachments are so constructed that the user can put on any length at his pleasure.

The stops on the rod can be thrown up and down as indicated in illustration.

Cuts up to 2¼ inches wide.

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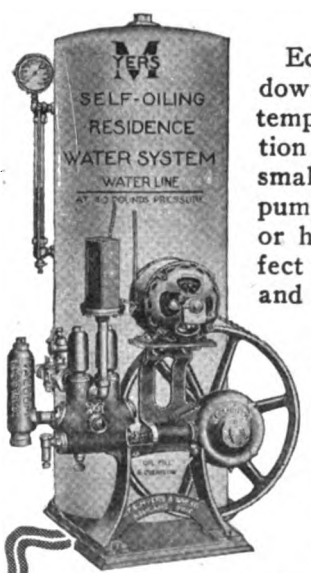
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Selected List of Manufacturers' Literature

(Continued from page 166)

Cabot, Samuel, Inc., 141 Milk St., Boston, Mass.
2594. *Cabot's Waterproofing Specialties.* Booklet. 14 pp. Illus. Covers damproofing, clear brick waterproofing, and clear cement waterproofing.
Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.
General Fireproofing Co., Youngstown, O.
32216. *The Waterproofing Handbook.* Catalog. 72 pp. Illus
Johns-Manville, Inc., 292 Madison Ave., New York.
35517. *Aquadom.* Folder. 4 pp. Illus. Explains use.
Master Builders Co., Cleveland, O.
5321. *Booklet.* Describes *Mastertex,* their waterproofing paint for stucco, concrete, etc.
Morene Products Co., Inc., 241 W. 28th St., New York.
5373. *Folder.* Describes *Kemisol,* waterproofing and preservative for stone, brick, concrete and cement surfaces above ground.

WATER SYSTEMS—See also Plumbing Equipment
Dayton Pump & Mfg. Co., Dayton, Ohio.
2902. *Catalog.* Illus. Deals with various types of water systems.
Duro Pump & Mfg. Co., 309 Monument Ave., Dayton, Ohio.
5671. *Duro-matic Way.* Information on the operation of Duro automatic water softener.
Fairbanks, Morse & Co., 900 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets. Directs attention of builders and architects to home water systems.
Flint & Walling Mfg. Co., Kendallville, Ind.
3091. *Running Water Under Pressure.* Catalog No. 115. 48 pp. Illus. Deals with water systems including pumps, tanks, etc.
Hardin-Lavin Co., 121-131 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing and heating equipment. 50 cents.
Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, and pneumatic waterworks fields.
Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 57. 414 pp. Illus. Presents complete line of Myers pumps, door hangers, store ladders, etc.

WEATHER STRIPS
Allmetal Weatherstrip Co., 229 West Illinois St., Chicago.
2041. *Circular.* 6 pp. Illus. Describes uses for hotels, residences.
Burrowes Weatherstrip Co., 1930 S. 52nd St., Chicago.
5491. *Do Your Windows Hold Out the Cold?* 4 pp. Illustrated.
5492. *Dealer Proposition.* Information on open territories.
Ceco Weatherstrip Co., 1920 So. 52nd St., Chicago.
2851. *Ceco Metal Weatherstrips.* Catalog. Illus. 16 pp. Describes these weatherstrips and their installation.
Dennis & Co., W. J., 210 W. Lake St., Chicago.
2911. *D. D. C. Spring Bronze Weatherstrip.* Includes sample, description and method of installation.
Diamond Metal Weatherstrip Co., 412 Spruce St., Columbus, O.
5621. *Diamond Weatherstrip.* Takes up details and installation.
Federal Metal Weather Strip Co., 1238-50 Fullerton Ave., Chicago, Ill.
3071. *Does it Pay?* Folder. 4 pp. Illus. Concerns the question of using weather strip.
3072. *Window and Door Equipment.* Folder. 4 pp. Illus.
Hoffbauer Co., Inc., 101 Park Ave., New York.
3411. *Metal Weather Strips.* Folder. 4 pp. Illus.
Mallu, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes metal weather strips, porch enclosures and rust-proof fly screens.

WEATHER VANES
Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Copper Weather Vanes.* Illus. Catalog. 32 pp. Shows different designs of weather vanes and lightning rods.

WINDOWS, METAL
Bayley Co., Wm., Springfield, O.
2382. *Bayley-Springfield Steel Fire Windows.* Bulletin F21. 4 pp.
2383. *Bayley-Springfield Steel Office and Schoolhouse Windows.* Bulletin AA21. 4 pp. Illus. Details and description.
2385. *Bayley-Springfield Steel Windows for Basements.* 4 pp. Illus.
2386. *Bayley-Springfield Projected Ventilators, Steel Windows.*
Detroit Steel Products Co., 2252 E. Grand Blvd., Detroit, Mich.
2921. *Fenestra Steel Casement Windows.* 24 pp. Illus. New edition. Includes photographs and detail drawings.
2922. *Fenestra Basement Windows.* Booklet. 16 pp.
2923. *Fenestra Reversible Ventilator Windows.* 20 pp. Illus.
2924. *Fenestra Counter-Balanced Windows.* Catalog. 111 pp. Illus.
2925. *Fenestra Industrial Window Walls.* Catalog. 111 pp. Illus.
2926. *Fenestra Steel Windows for Schools.* Booklet. 32 pages. Illus.
Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2956. *Donley Basement Windows.* 16 pp. Illus. Gives details.
Hope & Sons, Ltd., Henry, 103 Park Ave., New York.
3431. *Hope's Casements.* Circular. Illus. Covers line of standard size and type steel casements.
Lupton's Sons Co., David, Philadelphia, Pa.
3845. *Industrial Windows.* Catalog No. 12-A. Illustrated.
Truscon Steel Co., Youngstown, O.
4795. *Truscon Steel Sash.* Illus. 80 pp. Handbook
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog. Contains designing data, tables and views of Stock Sash installations.

WINDOWS—WOOD
Andersen Lumber Co., Bayport, Minn.
2241. *Anderson Window Frames.* 24 pp. Illus. General catalag.
2242. *Better Frames for Your Money.* 6 pp. Illus
California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of information Sheets on California White and Sugar Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.
Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.
Wheeler, Osgood Co., Tacoma, Wash.
5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of *Laminex* and *Woco* doors and includes description of *Woco* window sash.

WIRE, IRON, BRASS AND BRONZE PRODUCTS—See also Ornamental Iron and Brass
New Jersey Wire Cloth Co., Trenton, N. J.
4143. *Wire Work.* Descriptive literature. Illus. Treats upon wire lath, screens and kindred wire products.
Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4203. *Practical Machine Guards.* Catalog. 36 pp. Illus. Shows application of *Econo* mesh for this duty.

WIRE CLOTH—See Screens

WIRE GLASS—See Glass

WOODWORK—See Lumber and Woodwork

WOODWORKING MACHINERY
Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2054. *Sawing with Elbow Grease or Gasoline?* Catalog. Illus.
American Saw Mill Machinery Co., 61 Main St., Hackettstown, N. J.
2171. *Catalog No. 21.* Describes circular saws of all sizes.
2172. *General Catalog No. 22 and Contractors' Bulletin No. 77.*
2173. *General Catalog No. 23.* Illus. 208 pp.
Atkins & Co., E. C., Indianapolis, Ind.
2301. *Saws, Saw Tools and Machine Knives.* Catalog. 272 pp. Illus. Covers complete line of *Atkins* saws, saw filers, knives, etc.
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2341. *Electric Portable Sander.* Bulletin BE. Illus.
2348. *Barker-State Saws.* Bulletin. Illustrated. Describes universal and fixed type of pedestal electric saws.
Barnes Co., W. F. & John, Rockford, Ill.
2551. *Barnes Catalog.* 38 pp. Illus. Covers line of saws, etc.
2552. *Barnes Motor Driven and Foot Power Woodworking Machines.* Booklet. 14 pp. Illus. Takes up various types.
Black Bros. Co., Inc., Mendato, Ill.
2472. *Black Veneer and Glue Room Equipment.* Catalog No. 11. 16 pp. Illus. Covers the line of clamps, presses, mortising machinery and sandpaperers.
Boice, W. B. & J. E., 1730 Norwood Ave., Toledo, Ohio.
5861. *Saw Your Way to Success.* Folder. Describes Boice-Crane bench machines.
5862. *Literature.* Describes Utility lathes, bench jointers, etc.
Buffalo Forge Co., 476 Broadway, Buffalo, N. Y.
2541. Catalog, 850-54. Describes the *Buffalo* Woodworker.
C. H. & E. Mfg. Co., 259 Mineral St., Milwaukee, Wis.
2581. *Home Builder's Saw Rig.* Bulletin. 4 pp. Illus. Furnishes description, specifications and prices.
2585. *Portable Saw Rigs.* Illus. Takes up six sizes with power built in and under table.
Colgan Machinery & Supply Co., 16 E. Broad St., Columbus, O.
2741. *Would You Bore Holes with a Hot Iron?* Folder. 4 pp. Illus. *Champion* hand and electric power mortisers.
Crescent Machine Co., 206 Main St., Leetonia, O.
2861. *Crescent Saw Tables.* Catalog. 20 pp. Illus.
Cresson-Morris Co., 18th & Allegheny Ave., Philadelphia.
5811. *20th Century Woodworker.* Circular. Illus.
DeWalt Products Co., Leola, Pa.
2941. *DeWalt Woodworker.* Folder. 4 pp. Illus. Furnishes information regarding *DeWalt* universal woodworker.
Gallmeyer & Livingston Co., Grand Rapids, Mich.
3181. *Union Woodworking Machines.* Booklet. 16 pp. Illus.
3182. *Woodworking Machinery.* Booklet. 14 pp. Illus.
Hutchinson Mfg. Co., Norristown, Pa.
3451. *Don't Let Dollars Slip Through Your Fingers.* Folder. 6 pp. Illus. Describes *Speed Marvel Worker.*
3452. *Bench Jointers.* Folder. 4 pp. Illus. Presents Speed Marvel 4" and 6" jointers.
3453. *Beaver.* Folder. 4 pp. Illus.
Huther Bros., Saw Mfg. Co., Rochester, N. Y.
3462. *Huther Catalog.* No. 38. Illus. Covers complete line.
3463. *Huther Pocket Size Catalog.* No. 43. 100 pp. Illus. Describes line of dado heads, milling saws, etc.
Kennedy, Ralph, 117 N. 7th St., Philadelphia, Pa.
3621. *The Kennedy Utility Saw.* Descriptive literature.
Kornau Machine Co., Gulow and Vendalia Sts., Cincinnati, O.
3731. *Upright Hollow Chisel Mortiser.* Data and description.
Markwell Mfg. Co., 176 Franklin St., New York.
3941. *Markwell Catalog.* 33 pp. Illus. Describes various appliances for the sash and screen maker.
Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.
3961. *Master Woodworker.* 18 pp. Describes model No. 7.
Parks Ball Bearing Machine Co., 1540-46 Knowlton St., Cincinnati, O.
4261. *Parks Woodworking Machines.* Catalog E. 42 pp. Illus.
4262. *Cabinet Shop Special.* Bulletin. No. 7. 6 pp. Illus.
4263. *Contractors' Special Swing Cut-off Saw.* Bulletin. 4 pp.
4264. *Planing Mill Special.* Bulletin. C-85. 6 pp. Illus.
Sheldon Mfg. Co., Inc., Box 25, Nehawka, Neb.
4563. *Four Leaflets and Folders.* Illus. Describe their *Model A* portable gas engine, saw rig and *Model B* portable electric.
Sidney Machine Tool Co., Sidney, O.
4581. *Famous Woodworking Machinery.* Catalog, pocket size.
4582. *Booklet.* 12 pp. Illus. Gives additional information.
Tannewitz Works, Grand Rapids, Mich.
4741. *Variety Saw Benches.* Bulletin. Describes a machine for all classes of work.
4742. *Sawing Machinery.* Complete catalog. Illus. Comprises bulletins of many types of machines, with specifications.
Wallace & Co., J. D., 134-158 S. California Ave., Chicago.
4891. *Wallace Bench Machines.* Illus. Loose Leaf Catalog. 22 pp
4892. *Wallace Machines for Working Wood* Illus. Catalog.
4893. *The Woodworking Pictorial.* A Bulletin of suggestions.

ZINC—See Leaders, Flashings and Gutters; also Roofing Materials

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RAPID, skillful plastering, which is also economical plastering, calls for a firm backing that will not yield or spring under the plasterer's trowel.

Bostwick "Truss-Loop" metal lath is nationally recognized as the lath of maximum rigidity—the ideal surface on which to apply plaster.

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Is in the Finished Job

Unduly light lath slows up the plasterer. More plaster falls to the floor when the lath is springy. More is wasted between walls in widely spaced meshes. Difference in favor of Bostwick "Truss-Loop" often amounts to twenty-five per cent of the plaster cost.

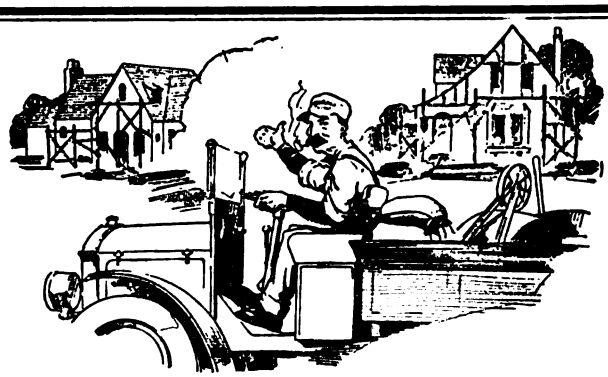
Consider also that supports may be more widely spaced which saves joists or channels as well as labor. Remember that Bostwick "Truss-Loop" calls for scarcely any overlap.

Bostwick Quality costs you nothing. After its ultimate saving has been realized, you have the long tested superiority of "Truss-Loop" as a guarantee of fine walls and ceilings for years to come.

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NILES, OHIO

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for Better
Plastering

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METAL LATH



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You can't go wrong with Rocbond. Just use a good half inch and you know your job is going to be right."

Rocbond is an exterior Stucco of unusual durability. It is easy working and well adapted to the finishing of homes of the best sort. Men who use it keep on using it.

ROCBOND
Exterior Stucco
A Good Half Inch

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Write the one nearest you

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Van Wert, Ohio — Harrisburg, Pa.
Cedar Rapids, Iowa — New York, N. Y.

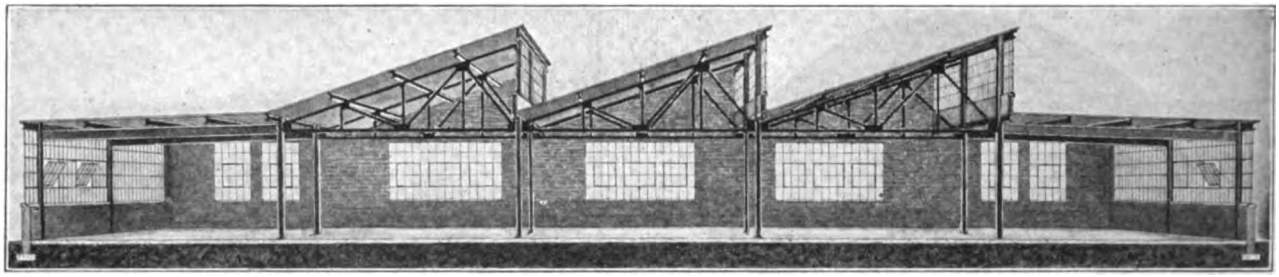
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Out-O-Sites convert the coolest, most desirable spaces in the house into bedrooms. They do away with the expensive construction work since they are entirely independent of the closet. Let us send you "Portfolio of Disappearing Beds." It gives you some valuable tips on space saving, ingenious arrangements of dwelling and apartment.

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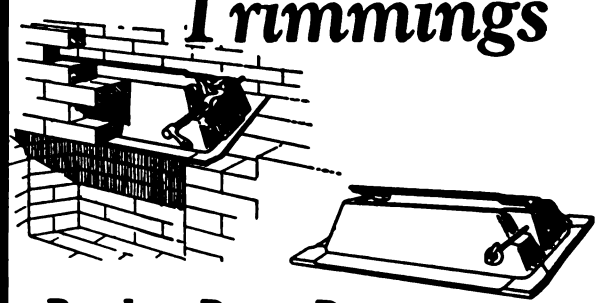
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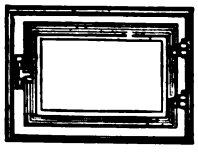
Peerless Dome Dampers insure perfect fireplaces

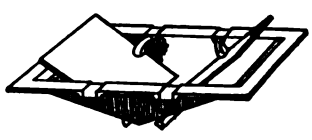
You builders and contractors who want to satisfy your customers—here is the way to eliminate smoky fireplaces: A dome damper will prevent smoke and smoke discoloration, give control over the fire, save fuel, prevent soot falling into fireplace, prevent waste of heat, eliminate haphazard work in building fireplaces and insure a perfect draft at all times.

We carry a complete stock of dome dampers, grates, ash doors and traps, and all fireplace trimmings. Immediate shipments! Send for our big free catalog.

Hornet Mantel Co.

1145 A Market St. - - St. Louis, Mo.





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for BEAUTIFUL MANSIONS or BUNGALOWS



Beautiful **birch**

displays good workmanship to best advantage, ever reflecting credit upon the builder and gratifying the pride of the owner.

It *permanently* retains its fine appearance—doors, trim, paneling, built-in cabinet work, and floors—whether finished natural, stained or enameled.



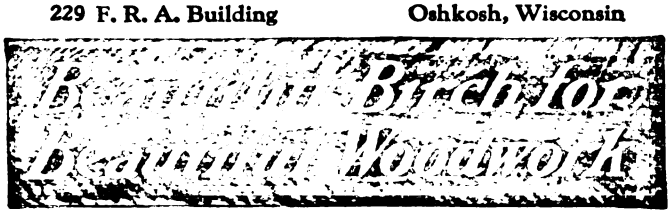
Beautiful **birch** *effectively used for trim and built-in cabinets in this "homey" dining room*

Win your client's life-long appreciation by recommending rotary-cut **birch** veneer for doors and panels—less costly and more beautiful than straight-sawn veneer from other woods, and it *will not check.*

The close grain and "mar-proof" hardness of **birch** make it one of the most enduringly beautiful interior finishes—let **birch** homes build you more business!

Let us help you. Send us a list of your most promising prospects, and we will gladly send them a copy of the "Beautiful Birch" book—and tell them it is at your request.

THE BIRCH MANUFACTURERS
229 F. R. A. Building **Oshkosh, Wisconsin**



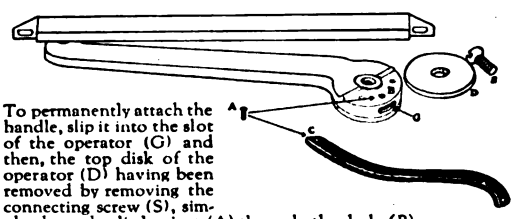
407% increase in sales has resulted from these 1925 improvements in

Win-Dor
CASEMENT OPERATORS

Never before has a builder's hardware specialty created such a sensation as the Win-Dor Casement Operators with their 1925 improvements. These include simplification of design and manufacture, permitting great price reductions in Win-Dor Operators of the highest grade and desirability. Builders everywhere have immediately recognized in the *New Standard Types* the casement operators so long needed at the prices so long hoped for; and installations have invariably met with the enthusiastic approval of the home owners.

...and Now!...

Another Win-Dor improvement. A handle that may be used detachable or permanently attached as desired.



To permanently attach the handle, slip it into the slot of the operator (G) and then, the top disk of the operator (D) having been removed by removing the connecting screw (S), simply drop the little rivet (A) through the hole (B). It will also protrude through the hole into the handle (C) and when the top disk of the operator is returned to position the handle is permanently attached.

Install Win-Dor Casement Operators and put satisfaction into your Fall building. Complete information on request. Simply send the coupon to the Casement Hardware Company—Casement Hardware Headquarters for Twenty Years.

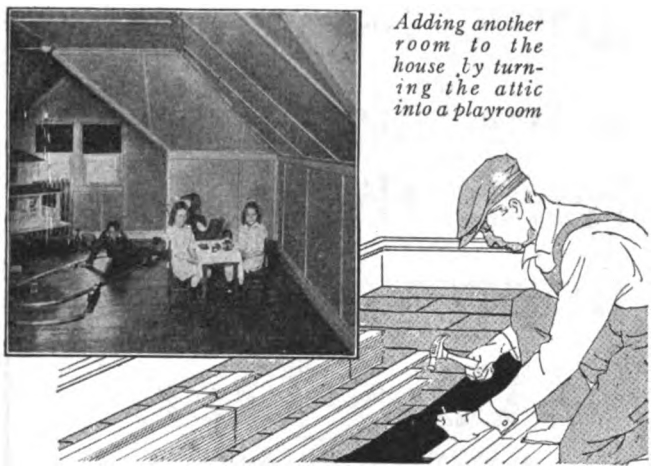
Casement Hardware Co., 250 Pelouze Bldg., Chicago

Please send me complete information on Win-Dor Casement Hardware.

Name .....

Address .....

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Adding another room to the house by turning the attic into a playroom

REMODEL

Give the children an attractive indoor place to play. The attic is ideal; they can romp to their hearts' content, without disturbing the household. Oak Flooring, laid over the present unsightly floor, helps to make a real room out of the attic, and keeps it clean and sanitary besides.

Make More Money

In addition to the opportunity that every unimproved attic affords, you can make money by interesting your friends and neighbors in "toning up" the home, by laying Oak Floors in every room that has old, worn, ordinary floors. Quote by the room, not by the thousand feet, and prove how inexpensive the remodeling job will be. You can get in touch with a local Oak Flooring dealer, get samples and prices, and figure yourself the cost of laying and finishing. Then call on prospects.

We Will Help You

We will supply you with free illustrated literature to show prospects. Also technical booklets for your use, showing how to figure accurately the amount of flooring required on a job, with grading rules, standard measurements, proper handling, laying and nailing, etc., etc.



Mail this coupon

OAK FLOORING BUREAU
841 Hearst Bldg., *Chicago*

Please send me "The Story of Oak Floors," and "How and Where to Use Oak Floors."

*Name*_____

*Address*_____

*City*_____ *State*_____

SPEED UP!

CONCRETE WORK

For all classes of concrete work and in Portland Cement mortar, use Solvay Calcium Chloride to save time, labor and money.

SOLVAY

Calcium Chloride

when mixed with the gauging water—

1. Accelerates the initial and final set and increases the early tensile strength.
2. Gives greater plasticity and workability.
3. Increases density—water proofs.
4. Increases freezing resistance.

The quality of concrete is actually improved by Solvay, and many cement users find it a year round help.

Write today for the new Solvay booklet giving the latest information on the use of Calcium Chloride in Concrete Construction.

Write for Booklet No. 2353

The Solvay Process Co.
Wing & Evans, Inc., Sales Dept.
40 Rector Street New York

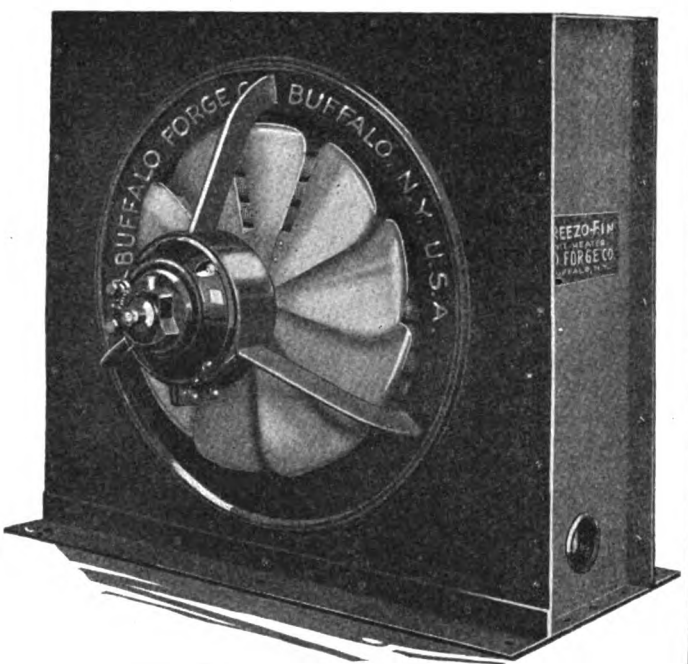
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Builders !!

Here's the Heater for winter work

If you're doing inside work where you have steam and electricity this Buffalo Breezo-Fin Heater will save money for you. Used in hundreds of factories, garages, warehouses, shipping rooms, and other buildings, as permanent heaters. Very light in weight, requiring practically no special supports, this heater is ideal for winter construction work. No fire hazard.



"Buffalo" **BREEZO-FIN HEATERS**

Made in two sizes, 18" and 24", with copper-finned copper steam coils, which have enormous heating capacity. Air is forced through these coils by a sturdy Buffalo "Breezo" Fan, which has a large totally enclosed motor, which requires oiling only once every 2,500 hours.

Now is the time to order these heaters for immediate delivery.

We'll be glad to send full information on request.

Write for Prices.

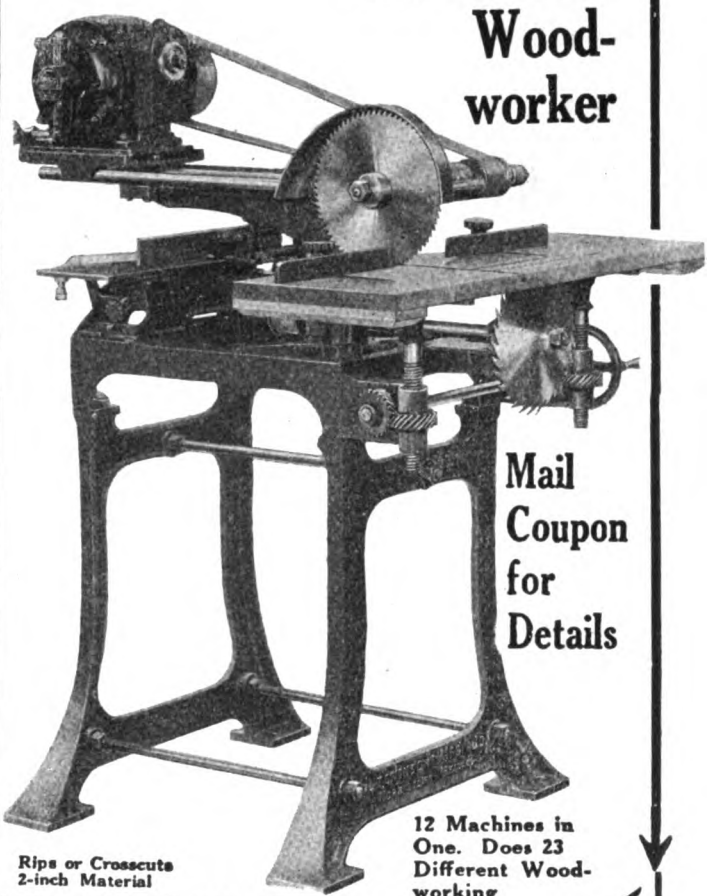
Buffalo Forge Company

476 Broadway **Buffalo, N. Y.**

So Good That You May Take A Year to Pay!

And That Means That It Actually Costs You Nothing, For You Pay It By Using Only A Small Part Of What It Saves.

The Beaver Woodworker



Rips or Crosscuts 2-inch Material

12 Machines in One. Does 23 Different Woodworking Operations.

Because it is right and stands up under all conditions, you may have a year's time to pay for the Beaver Woodworker. We sell the Beaver by letting you see for yourself what it will do in your shop or out on the job. And because we also manufacture the Speed Marvel, with capacity for cutting 8-inch, we are not tempted to "stretch" the capacity of the Beaver. It will pay you to get the facts by mailing the coupon.

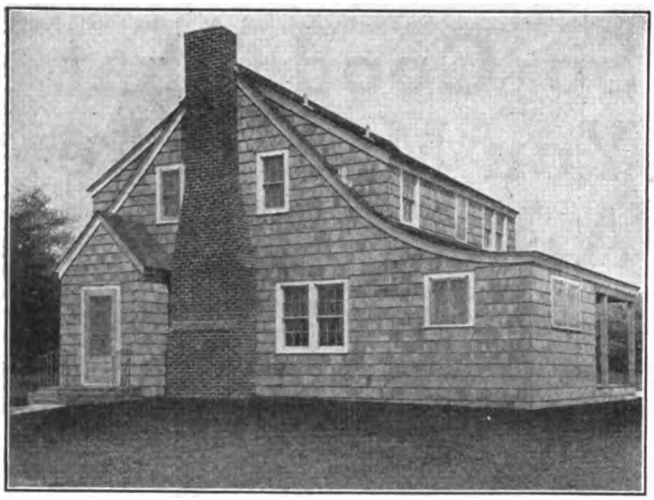
Mail Coupon for Details

Hutchinson Mfg. Co.
Norristown Pa.

To HUTCHINSON MFG. CO., Norristown, Pa.
Please send full particulars on your woodworkers. I am particularly interested in the machine I have checked below.
☐ The Speed Marvel with 3 H. P. Motor.
☐ The Beaver with either ½ or 1 H.P. Motor.

Name.....
Business.....
P. O..... St. or R. D.
State..... (B.A.)

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There is a graceful coziness about this attractive home on Drexel Boulevard in Minneapolis, Minn., that could not have been achieved in the same degree with anything but WEATHERBEST Stained Shingles.

It's details that make a reputation

A SATISFIED client or customer today—another one tomorrow—the word is passed to a friend or two—and soon the builder has a following among a brand new group. Every reputation is built up one word at a time—or one detail at a time.

One detail that has helped many a builder to win the favorable comment that builds reputation is the habit of using

Weatherbest STAINED-SHINGLES

And two important details of WEATHERBEST policy that have established an enviable reputation for quality are (1) chemically pure colors that LAST; and (2) the exclusive use of strictly edge-grain British Columbia Red Cedar. Mail the coupon for color samples and for literature showing WEATHERBEST economy.

Weatherbest Stained Shingle Co., Inc.
145 Main Street North Tonawanda, N. Y.
Western Plant, Minnesota Transfer, Minn.

WEATHERBEST Stained Shingle Co., Inc.
145 Main Street, North Tonawanda, N. Y.

Gentlemen: Please send set of large samples showing WEATHERBEST colors on Red Cedar and circular showing lower cost of WEATHERBEST Stained Shingles for sidewalls compared with clapboards.

Name .....

Address .....



Residence, Cadiz, Ohio—Redwood Bungalow Siding



Residence, Indianapolis, Ind.—all exterior finish, Redwood



Residence, Denver, Colo., Redwood exterior. A. R. Widdowson, Architect.



Residence, New Philadelphia, Ohio—10" Redwood siding and Redwood cornice.

Small houses of Redwood sell better because they are better

WHEN you build small houses, using TPL Co. Redwood for all exterior construction, you build houses you can recommend as sound investments. Our national advertising campaign is helping to educate the general public as to the ultimate economy of Redwood-built houses.

The rot-resistant Redwood siding, trim, shingles, window and door frames, porch columns, rail, balusters, mudsills, cornices, foundation timbers and gutters, do not add a hundred dollars to building costs.

But they make the house worth a lot more. Repairs and maintenance bills will stay small because the *natural* preservative which permeates Redwood during growth protects Redwood lumber and millwork against decay. Redwood takes and holds paint well—fewer paintings are necessary. Containing no highly inflammable pitch, Redwood is slow-burning—reduces the fire hazard, wherever used.

A recent government publication "Technical Note No. 173" places Redwood in the highest class for durability of all commercially used American woods, both softwoods and hardwoods.

Write for a copy of this report and our Construction Digest.

The Pacific Lumber Co.
Redwood

CHICAGO
3070 McCormick Bldg.
332 So. Michigan Ave.

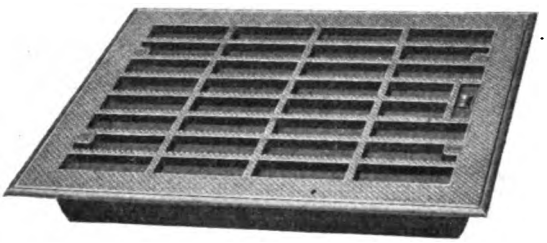
NEW YORK CITY
932 Pershing Sq. Building
100 East 42nd Street

SAN FRANCISCO
Robert Dollar Building
311 California Street

THE LARGEST MANUFACTURERS *and* DISTRIBUTORS *of* CALIFORNIA REDWOOD

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T&B Registers



Cobble Face Register Style 80,
Tanbo Antique Finish

Because
The Tanbo Finish Stands the Wear and Tear

FURTHERMORE, folks are fed up on having the usual black, shiny register stick out in its common-placeness in an otherwise attractive room.

That's why we designed this new Cobble face with its always pleasing neutral toned, Tanbo Antique Finish. It will fit any room in any house you build. Get one. Try it out. See for yourself.

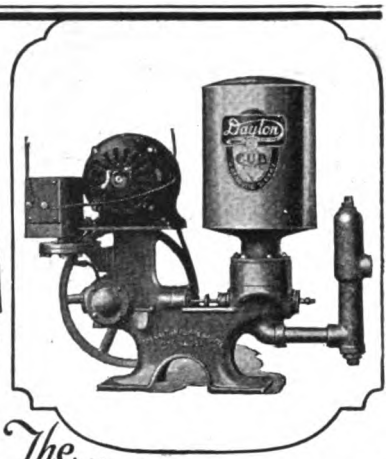
TUTTLE & BAILEY MFG. CO.

For over 75 years Makers of Registers

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1123-29 W. 37th St. CHICAGO
704 East 18th Street KANSAS CITY
Bridgeburg CANADA

SUBURBAN WATER SYSTEMS





The New DAYTON CUB $85

The DAYTON "Cub," illustrated above, is unquestionably the greatest water system value today. Selling for only $85.00 and covered by a written guarantee, this little giant has a pumping capacity of 200 gallons per hour—ample service for the average size home.

Dependable Service Means Lasting Satisfaction

DAYTON water systems—made by the pioneers in this field—have been giving dependable service for over sixteen years. Long ago DAYTON won its quality reputation—a position which has been constantly maintained and strengthened by working in close cooperation with critical architects and builders.

Architects and builders made the DAYTON what it is today. Their preference for a water system which combines long life, dependability, freedom from repairs and inexpensive operation, has placed DAYTON in thousands of the best built homes. DAYTON quality is guaranteed and builders know it. Nothing else can account for DAYTON'S success.

Whatever the requirement—for deep or shallow wells or cisterns—there is a DAYTON to fit the job, with pumping capacities ranging from 160 to 3000 gallons per hour. For homes, schools, clubs or other buildings—wherever modern water sanitation is desired, DAYTON fills the need and gives guaranteed service.

Send for your free copy of "Dependable Water Service for Country, Suburban and Farm Homes." It should be in your reference file. Mail the coupon today.



The Dayton Pump & Mfg. Co.
DAYTON, OHIO
U. S. A.

B.A.11

Please send, at once, my copy of "Dependable Water Service."

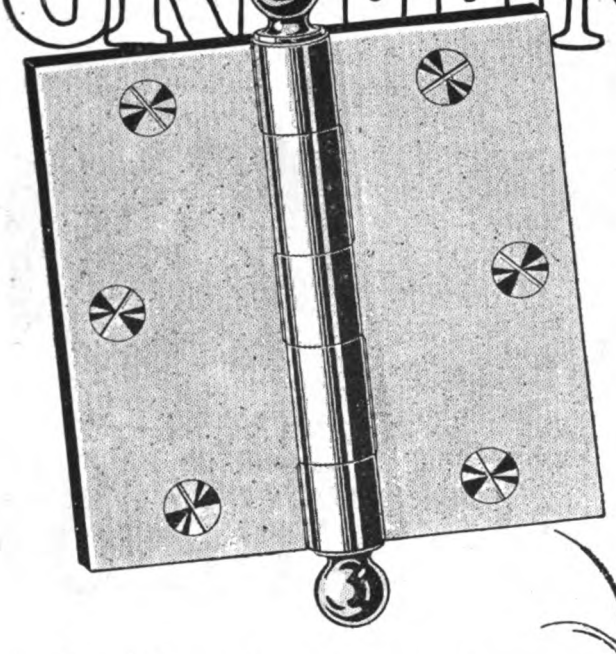
Tear off and pin to your letter head

Name .....
Address .....
City .....

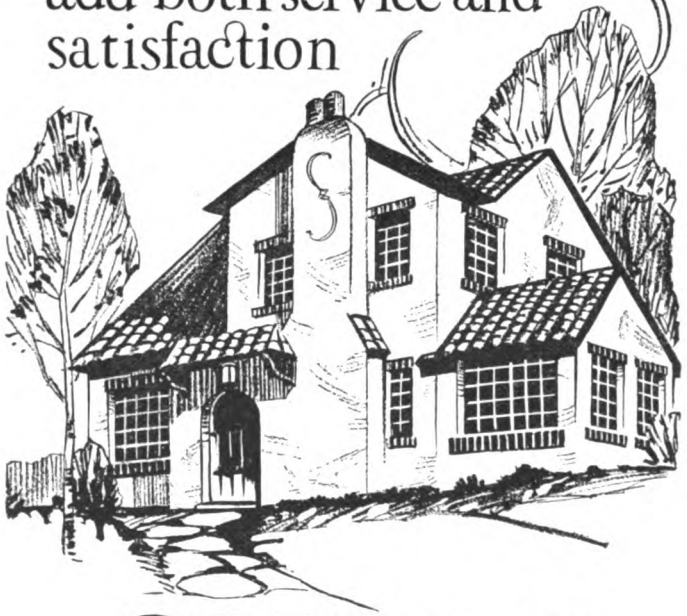
"Dayton" Pumps
Make the water do the running

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GRIFFIN



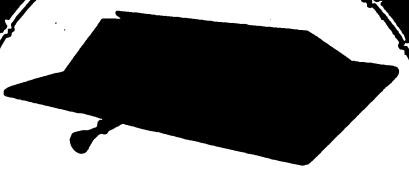
Conforming to varied architectural styles, GRIFFIN HINGES add both service and satisfaction

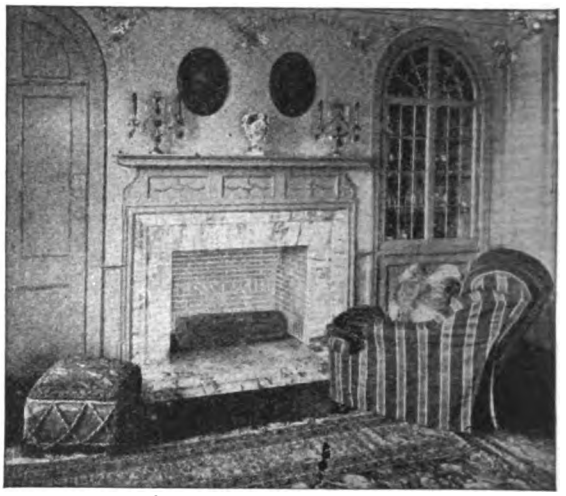


GRIFFIN
MANUFACTURING CO.

Branch Offices:
45 WARREN ST. N.Y.C. 74 W. LAKE ST. CHICAGO.
28 BINFORD ST. BOSTON

ERIE PENNA





Why the Fireplace Grows in Popularity

FIREPLACES in Ben Franklin's time were a crude, smoky necessity. Today, thanks to modern ingenuity, they can be built free from soot and smoke evils, capable of easy regulation and abundant heat. These improvements plus the instinctive appeal of the open fire are responsible for the present fireplace popularity.

The popular fireplace of today is built according to Donley Fireplace Plans using the Donley Damper with its smooth metal throat. You'll find these Plans, together with fireplace designs and descriptions of Donley Fireplace Equipment, in the Donley Book of Fireplaces. Send for a complimentary copy. Donley Catalog of Building Specialties also sent if requested.

The Donley Brothers Co.
13920 Miles Ave. Cleveland, Ohio

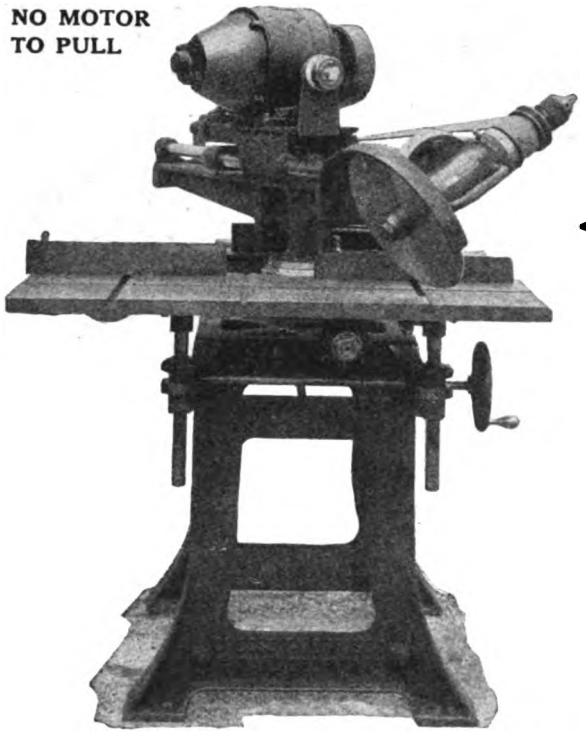
DONLEY DEVICES
Complete the Home

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20th CENTURY WOODWORKER

The Overhead Saw With 17-Inch Crosscut

NO MOTOR TO PULL



Look at this New

TILTING HEAD

← That Makes Possible a Double Angle Cut

Cuts Wood and Costs

Write for illustrated circular

CRESSON-MORRIS COMPANY 18TH & ALLEGHENY AVE., PHILADELPHIA, PA.

U. S. and Foreign Patents Pending. Licensed under U. S. Patent No. 1483631, Feb. 5, 1924

FURNESS BERMUDA LINE

(Bermuda Gov't's Official Contract Steamers)

BERMUDA



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(Average Yearly Temperature 70°)

Only 2 Days from New York

SAILINGS TWICE WEEKLY

From N. Y. Wed. and Sat.

via Palatial Twin-screw, Oil-burning Steamers

S.S. "FORT VICTORIA" and S.S. "FORT ST. GEORGE"

No Passports—Modern Hotels—All Outdoor Sports—

Golf, Tennis, Sailing, Bathing, Horse Racing, Fishing, Riding, Driving, etc.

ST. GEORGE HOTEL, St. George, Bermuda
Especially attractive, located in the historic, picturesque and quaint part of Bermuda. Excellent cuisine and service. Magnificent tiled, heated and covered swimming pool.

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Delightful cruises to the Gems of the Caribbean Sea.

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Crofoot SCREEN TACKER

Crofoot Tackers—Patented U. S. A. and Foreign Countries

DRAW TACK WITH A **CLAW WHACK**



Crofoot Screen Tacker is the best device for fastening screens. Drives 77 Staples with one loading, reloaded 3 seconds. Working parts of high grade steel properly hardened. Absolutely guaranteed.
Price trial outfit Tacker and 10M Staples $9.75 post paid. Returnable within 10 days if not entirely satisfactory.

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Sole Manufacturers of Crofoot Shade, Screen and Tag Tackers and Genuine Crofoot Staples for same.

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Floor Surfacing Jobs Insure Steady Income

Add $5000 to Yearly Profits



KEEP THE MONEY ROLLING IN DURING THE WINTER MONTHS

Go after and get the floor surfacing business in your locality with an American Universal Electrically Driven Floor Surfacing Machine. When building is at a standstill and there are no profits coming in, you can make $25.00 to $50.00 a day resurfacing old floors wtih the American Universal floor surfacing machine. It does the work of six men.

WORK EASY TO GET

The beautiful smooth, uniform work which the "American Universal" floor surfacing machine turns out puts the mostexpert hand scraper's best efforts to shame. There is absolutely no comparison.

WHO STANDS A BETTER CHANCE THAN YOU?

You know the owners of buildings and homes where floors require resurfacing. You are acquainted in your community and this will make it easier for you to land the contracts for resurfacing the great number of floors in your locality which are in need of it (and badly so) right now.

AN INVESTMENT WORTH $5,000 A YEAR TO YOU

An "American Universal" floor surfacing machine is always a good investment. It will replace six men on your payroll during the building season—and turn loss into big profits during the dull season.

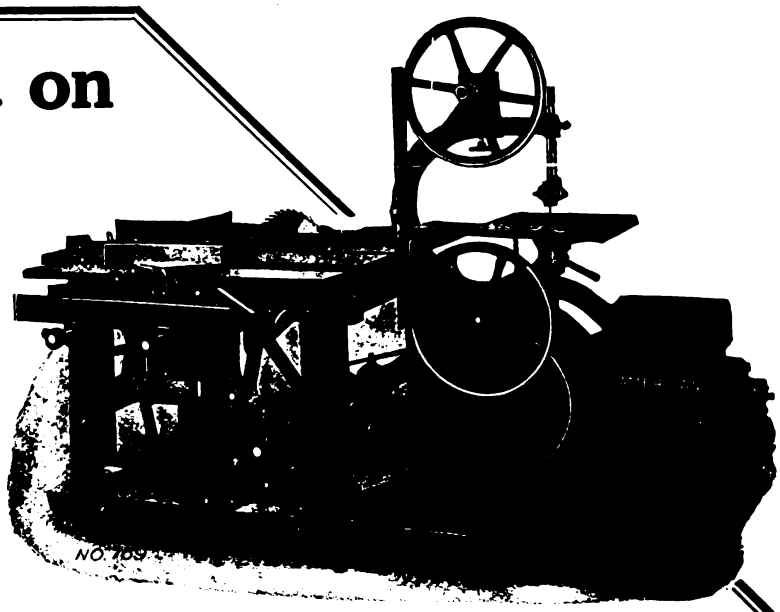
One fair sized job pays for the machine.

THE AMERICAN FLOOR SURFACING MACHINE CO.

514 S. St. Clair Street, Toledo, Ohio

Write Today for Full Particulars

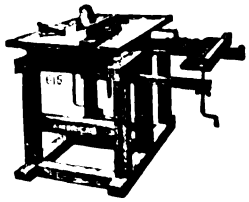
Saves Its Cost on the First Job



This American Portable Variety Woodworker with 20-inch band saw lets you do any woodworking operation of either a routine or special nature right on the job. Figure the savings over hand or shop work! Hundreds now in use.

This one machine may be used as a rip, band or cut-off saw, as a dado, gaining, grooving, rabbeting, tenoning or boring machine, as a jointer or planer, a matcher, molder or sander, and as a hollow chisel mortiser.

Let us send you our bulletin No. 80, which describes this and other "American" cost cutters.



American "Combination" Saw Bench

A rigid rip and cut-off saw with boring attachment

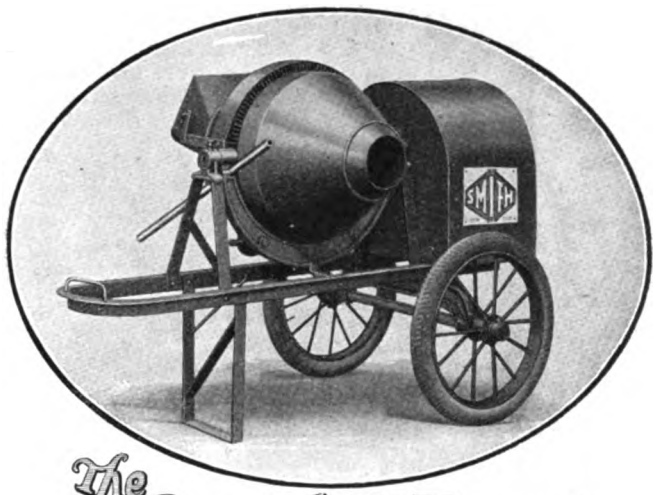
American Saw Mill Machinery Company

61 Main Street, Hackettstown, N. J.

1361 Hudson Terminal Bldg., New York City

Manufacturers of woodworking machinery for use on the job or in the shop

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The Smith Mascot

25 to 45 Cubic Yards per Day

Here it is—the low priced, **high value mixer!** —the little mixer with big mixer quality!—the new Smith Tilter that gives the same kind of dependable, economical service to the small job that big Smiths always give on big jobs.



Light Weight (Only 730 lbs.) and trailer truck allows easy shifting and moving from job to job.

The Smith Mascot is the latest addition to the Smith line and is the smallest mixer we make. Its size, however, does not mean that it is a cheap mixer. On the contrary, it duplicates the fine design and construction of the larger Smiths, and although its price is low, this is made possible by quantity production, direct sales methods, and every possible use of the latest labor-saving machinery in a strictly modern and up-to-date factory.



Easy "one hand" tilt from either side of mixer.

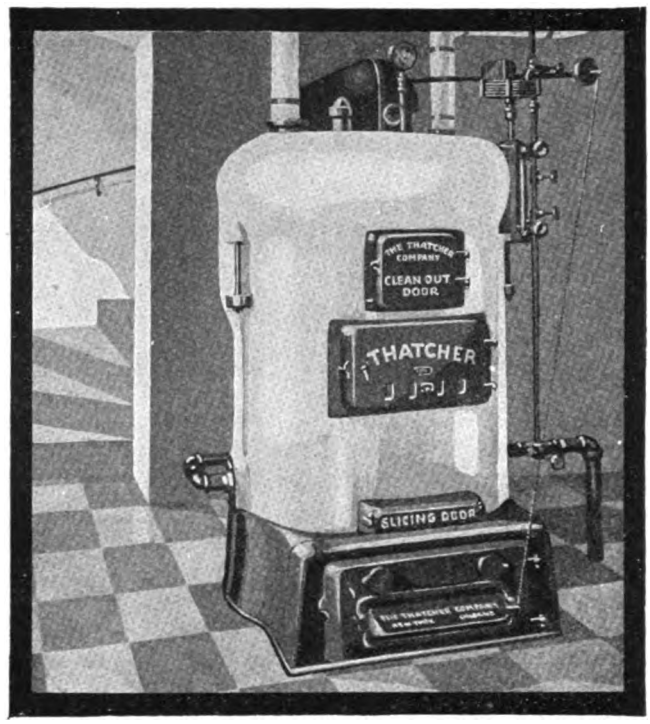
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The T. L. SMITH COMPANY

1028 32nd St., Milwaukee, Wisconsin

Sales Offices and Service Stations in all Principal Cities

SMITH MIXERS



Those Cellar Steps!

HEATERS and cellar steps are closely associated in people's minds. The less they have to go down and fuss around with coal shovels, drafts and dampers the better satisfied they are. Warmth and comfort with least effort is what the average home-owner really wants.

It is on just these important points that the Thatcher Round Boiler excels. Firing periods are far apart. There's no continual running up and down stairs to keep the house at the right temperature. Automatic control of drafts and dampers makes exact regulation easy. Conservative ratings assure abundant heat in zero weather. Many fuel saving features make low coal bills an accomplished fact.

The Thatcher Dealers in your locality are picked men. They know how to install Thatcher Boilers correctly. You will find their co-operation a great asset in insuring perfect heating service for the homes you build or remodel.

THE THATCHER COMPANY

Formerly Thatcher Furnace Co.

Since 1850

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THATCHER

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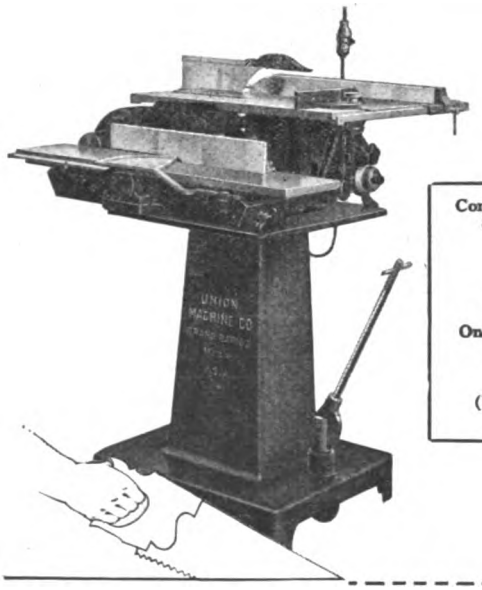
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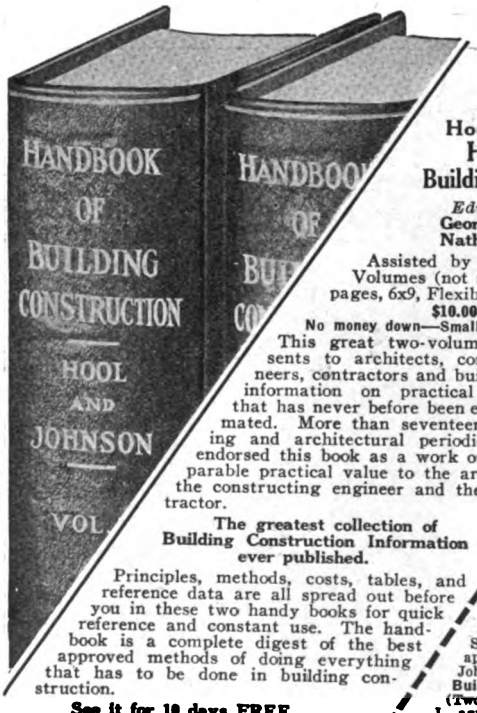


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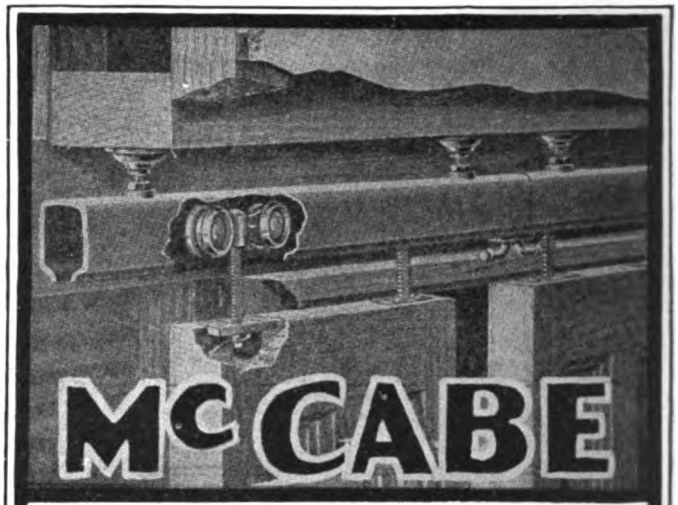


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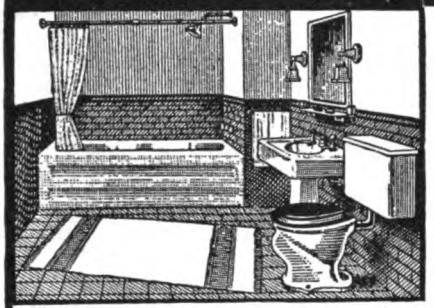
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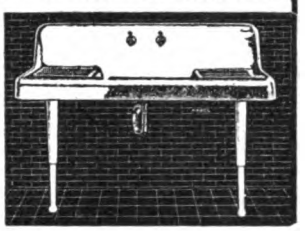
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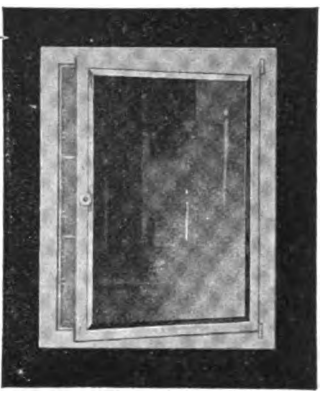
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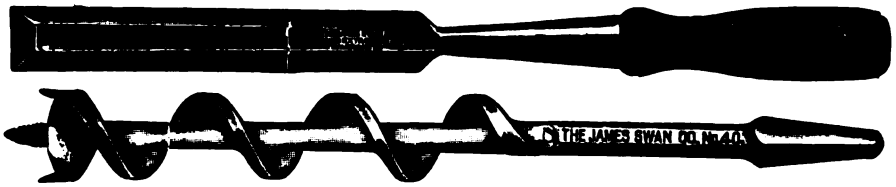


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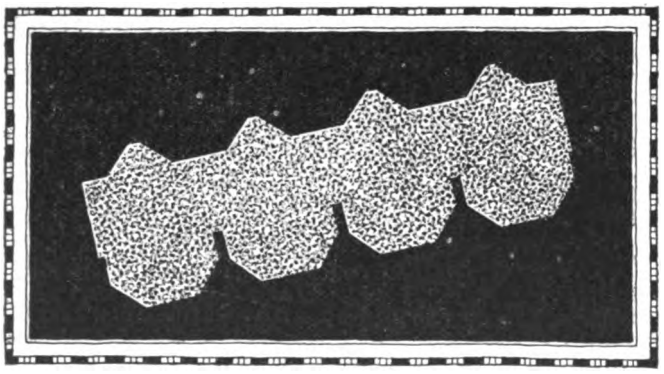


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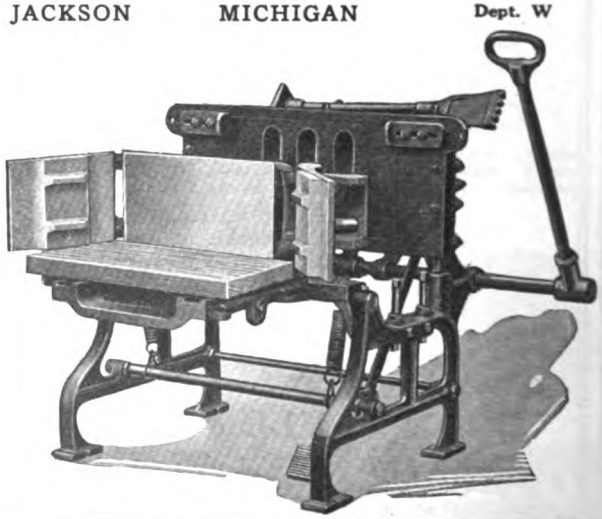
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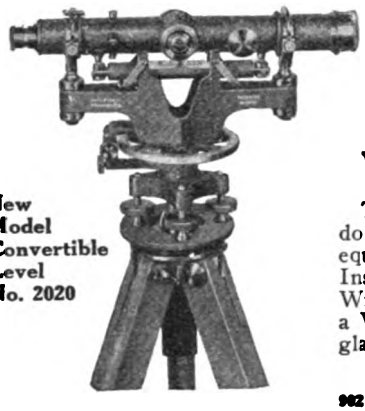
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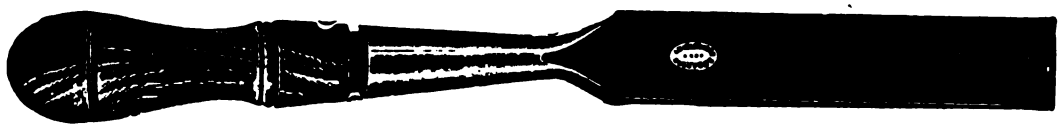
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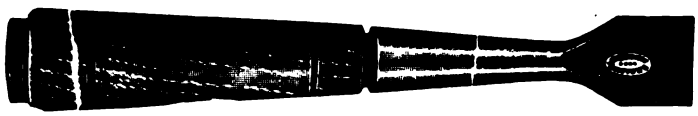
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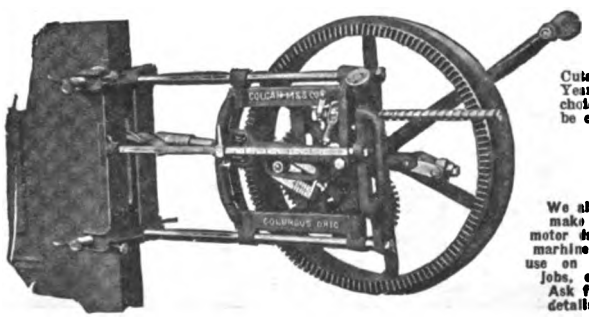
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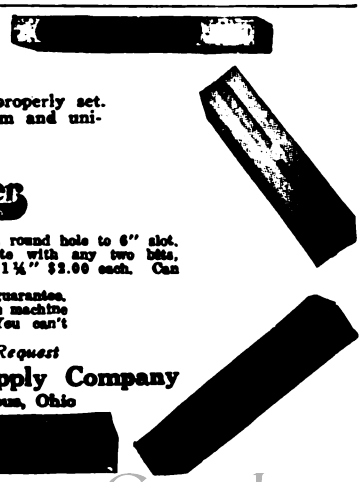
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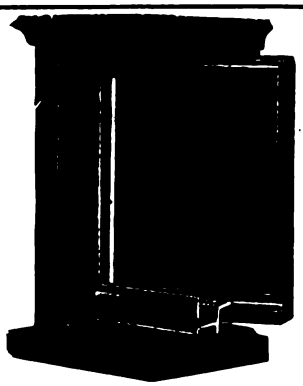
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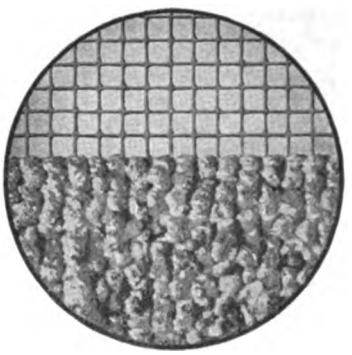
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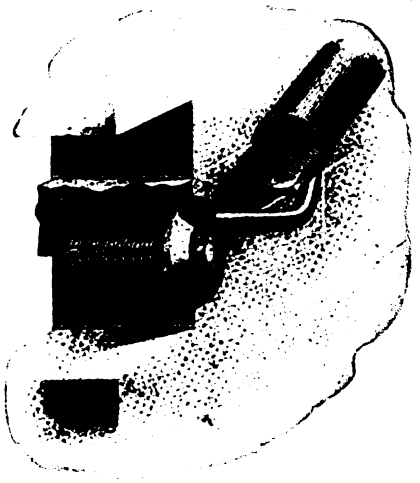
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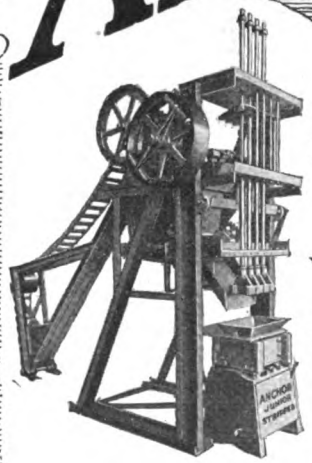
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in the modern apartment and house kitchen is Kab-Range, the combined range and kitchen cabinet. This space and labor saving unit is both beautiful and practical, assists planning and aids selling. Surprisingly reasonable prices on models for any requirement. Write us.

Write today for Catalog BA-11 with prices

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KAB-RANGE

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Let Boice Save You Money

Machines on Bench!

He offers you greater values in circular saws, bench saws, lathes, jointers and drills with a positive money-back guarantee. Write for literature, prices and Boice E-Z Pay Plan.



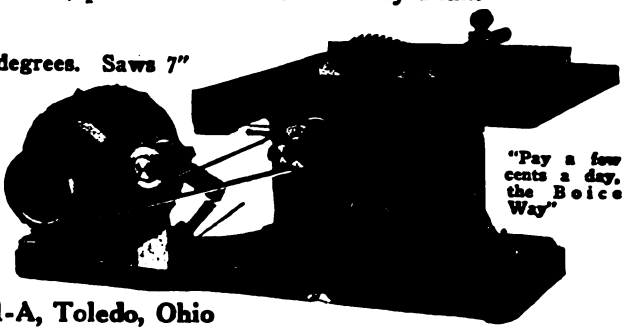
14" Band Saw

Portable. Table 12" x 14" tilts full 45 degrees. Saws 7" stock. Highest quality bronze bearing throughout.

Junior Bench Saw

Powerful, sturdy, economical. Will saw, sand, dado, cut mouldings grino, mitre, rabbet, tenon, etc., Table 10" x 13" elevates for grooving. Saws 2 1/8" stock.

Both machines driven by any 1/4 or 1/2 h. p. motor attached to light socket. All Boice Machines sold with or without motor.



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If you want this better construction, write for Armored Sidewalk Glass Bulletin, pictures, and Architectural Details.

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Everlasbestos Flooring

Indoor Work That Pays BIG

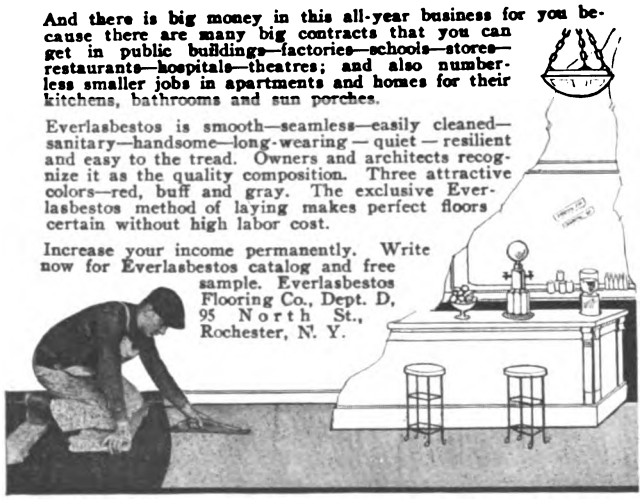
You can lay Everlasbestos floors both in new buildings and over old floors.

You have no dull seasons because this is indoor work, and buildings are being erected or remodeled all the time.

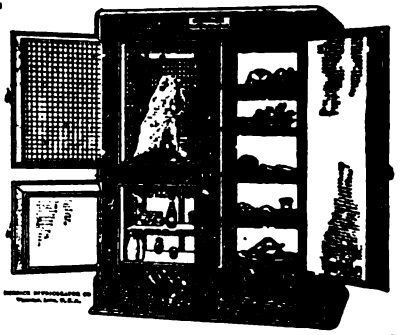
And there is big money in this all-year business for you because there are many big contracts that you can get in public buildings—factories—schools—stores—restaurants—hospitals—theatres; and also numberless smaller jobs in apartments and homes for their kitchens, bathrooms and sun porches.

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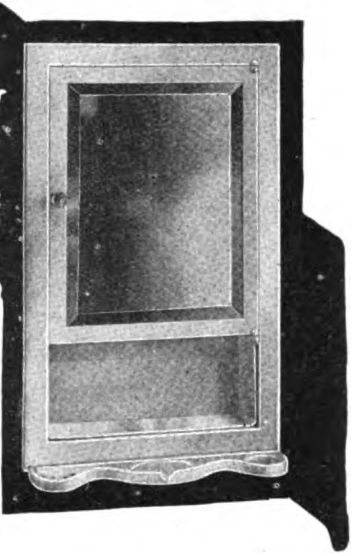
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GF Duplex STEEL BRIDGING

Cutting Costs Without Cutting Quality



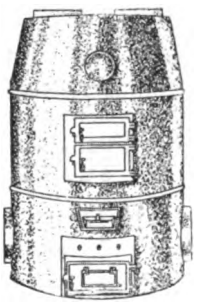
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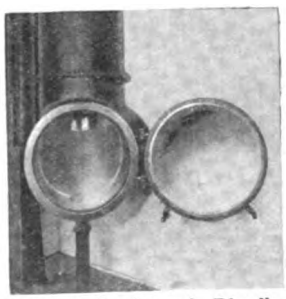
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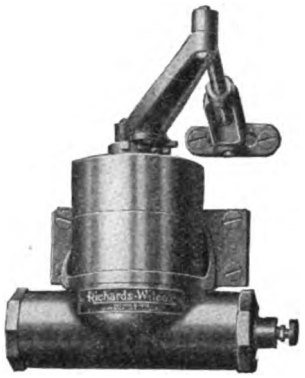
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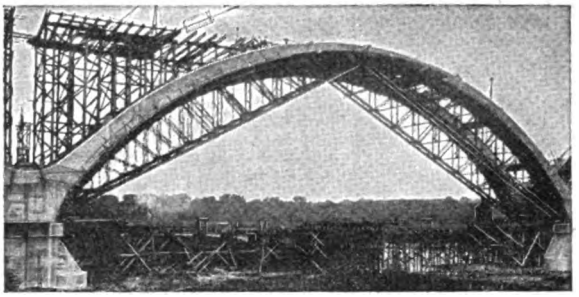
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A profitable line for carpenters, contractors, builders, or architects.

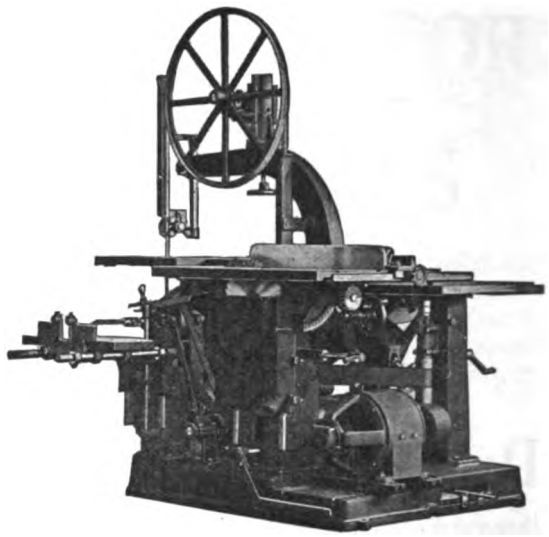
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BY INVITATION MEMBER OF

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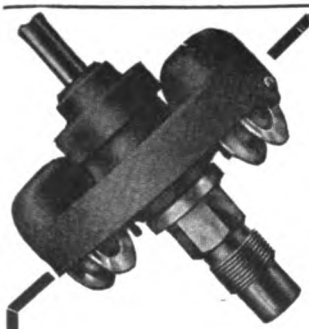


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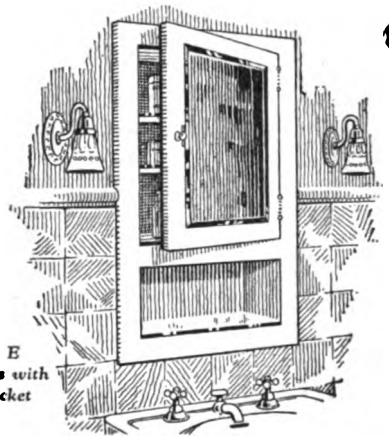
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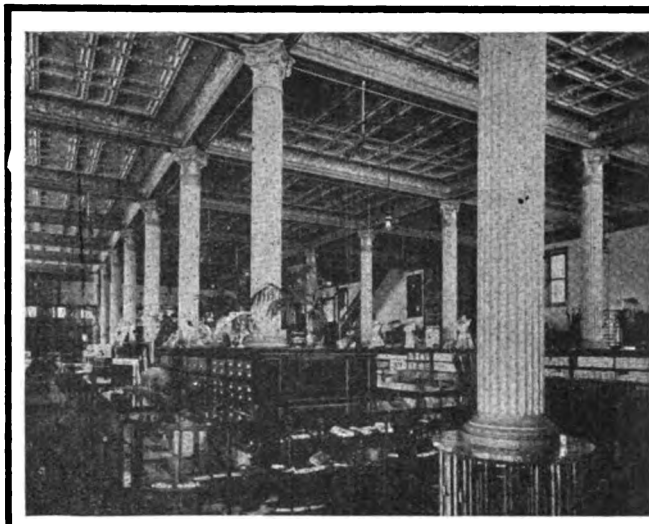
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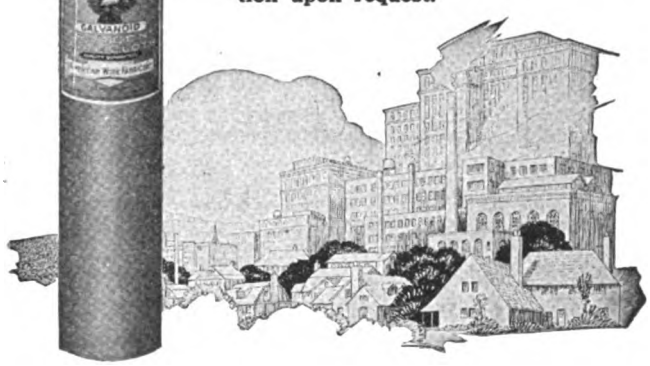


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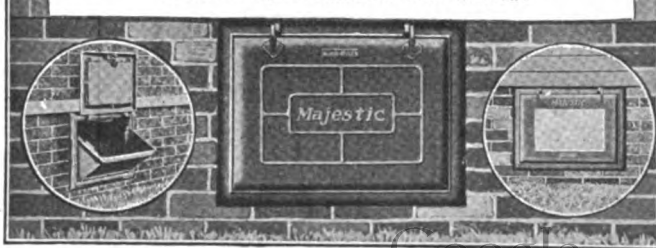


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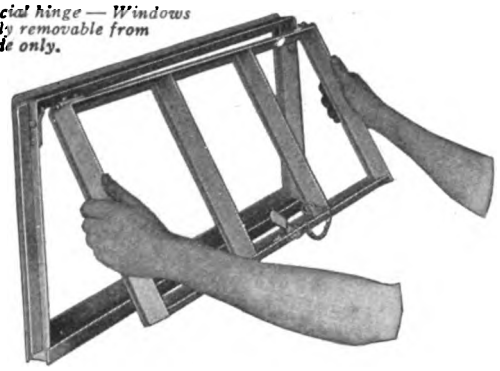
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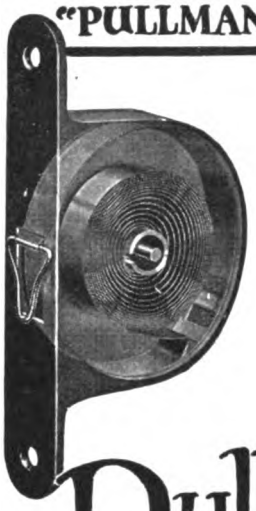
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supplies a most economical and indestructible fire-proof and vermin-proof guard

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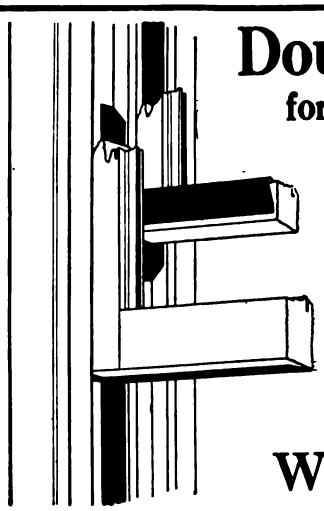
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A. B. C. Weatherstrips are indorsed by architects as the most efficient, and because they can be installed without removing or grooving the sash, they are the lowest in cost. This makes a wonderful opportunity, and the best season is just ahead. A. B. C. Weatherstrips are made of spring bronze, and follow any expansion, shrinkage or warp of the sash; consequently they always fit snug without sticking the windows. Every home owner wants them. We don't merely give you the agency and wish you luck, but we show you how to get jobs as fast as you can handle them. $125 covers your investment in weatherstripping material, and your share in an advertising plan that brings the business in your name. This proposition is open only to those who can satisfy us as to their workmanship and responsibility. It's the biggest thing in weatherstripping, and worth getting after at once.

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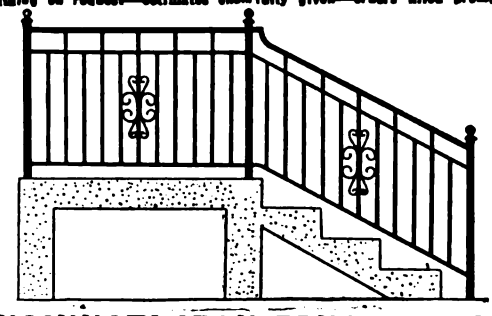
ALL BRONZE CONSTRUCTION ALWAYS BRINGS COMFORT

REGISTERED TRADE MARK

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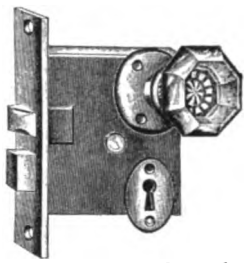
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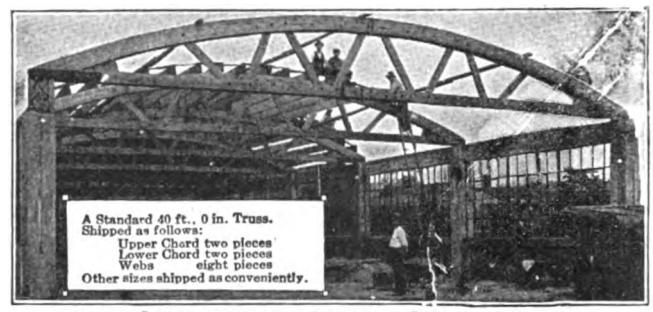
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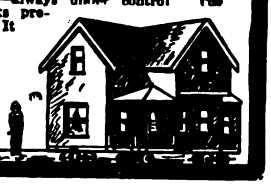
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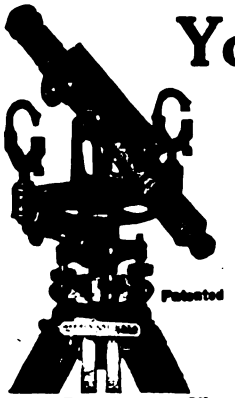
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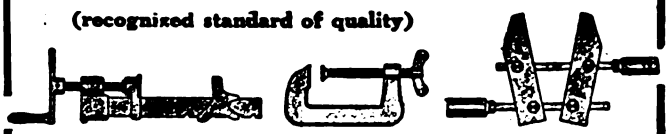
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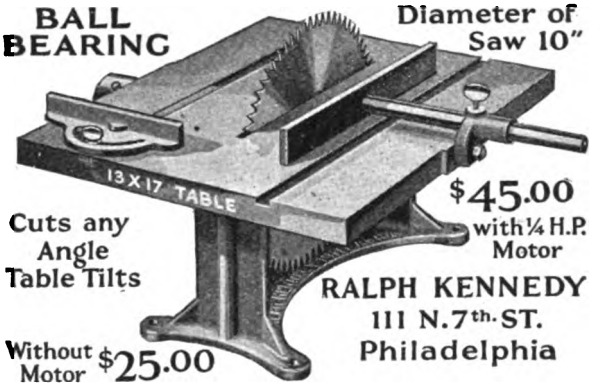
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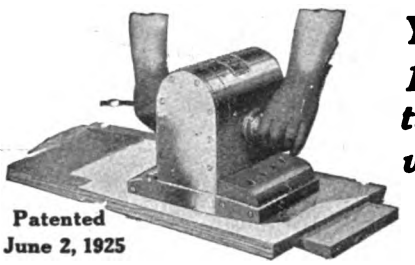
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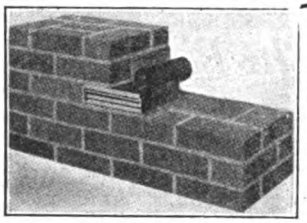


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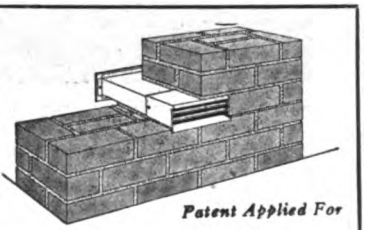
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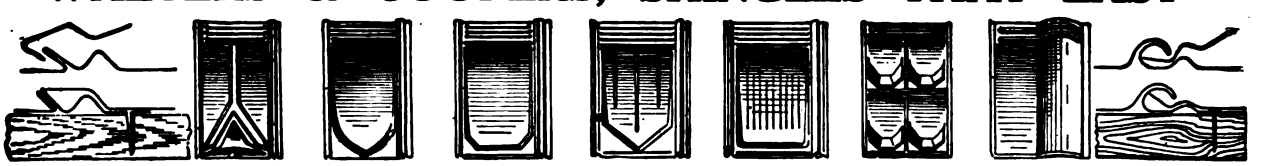
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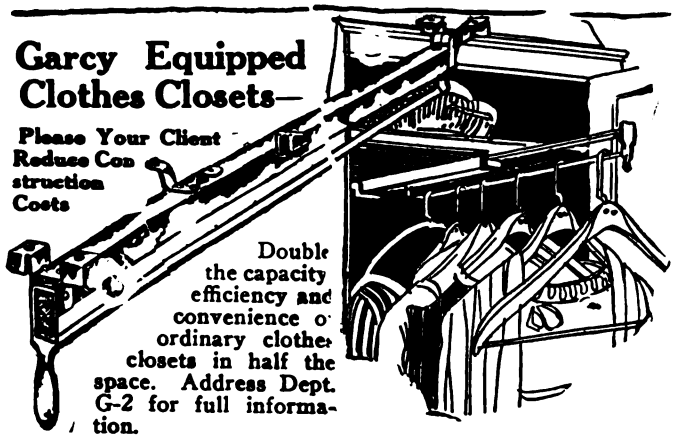
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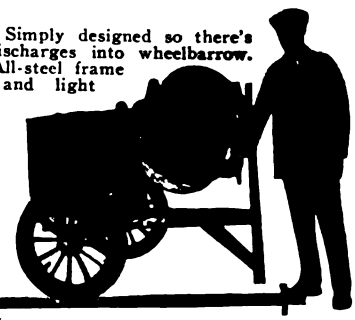
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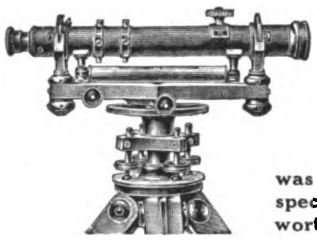
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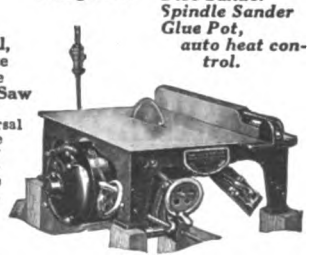
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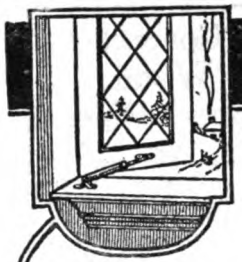
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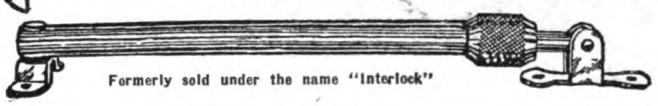
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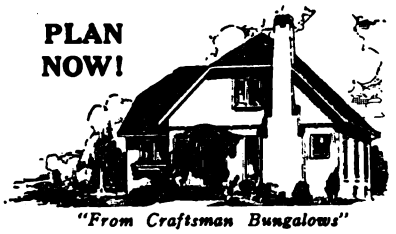
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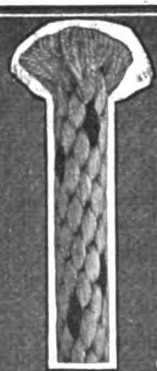
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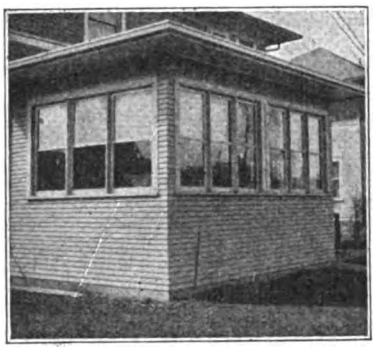
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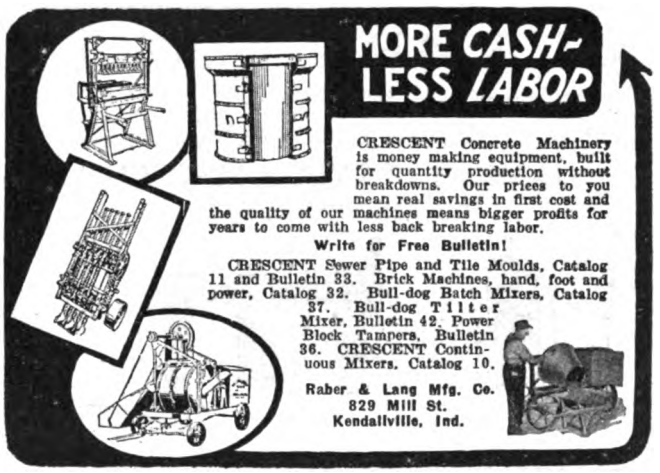
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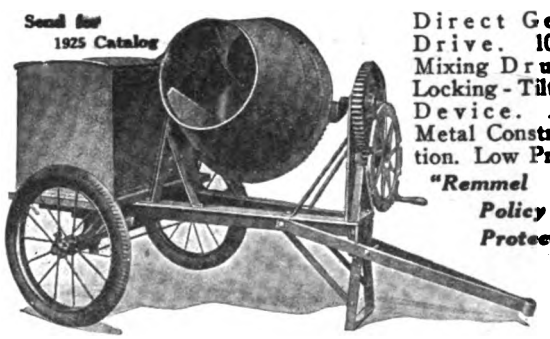
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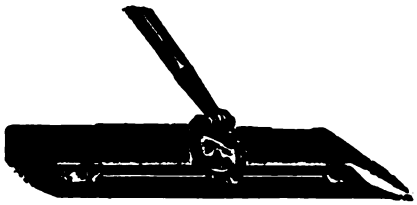
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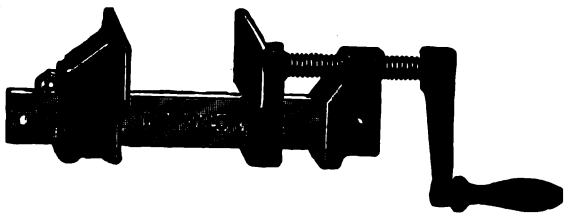
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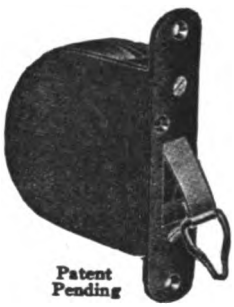
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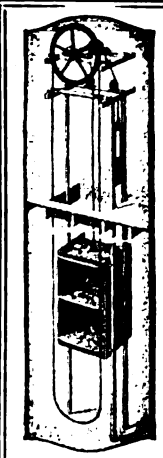
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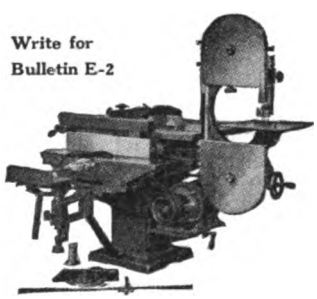


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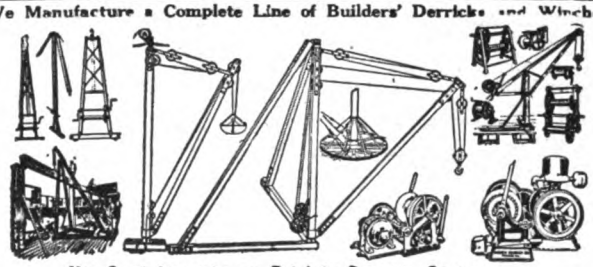
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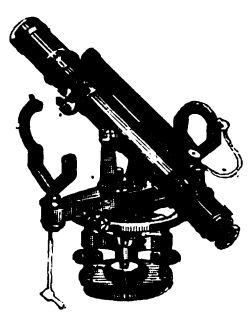


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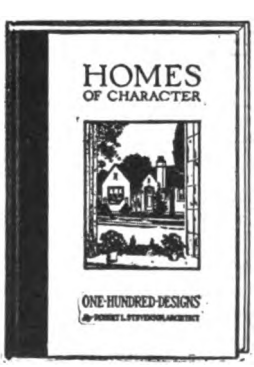
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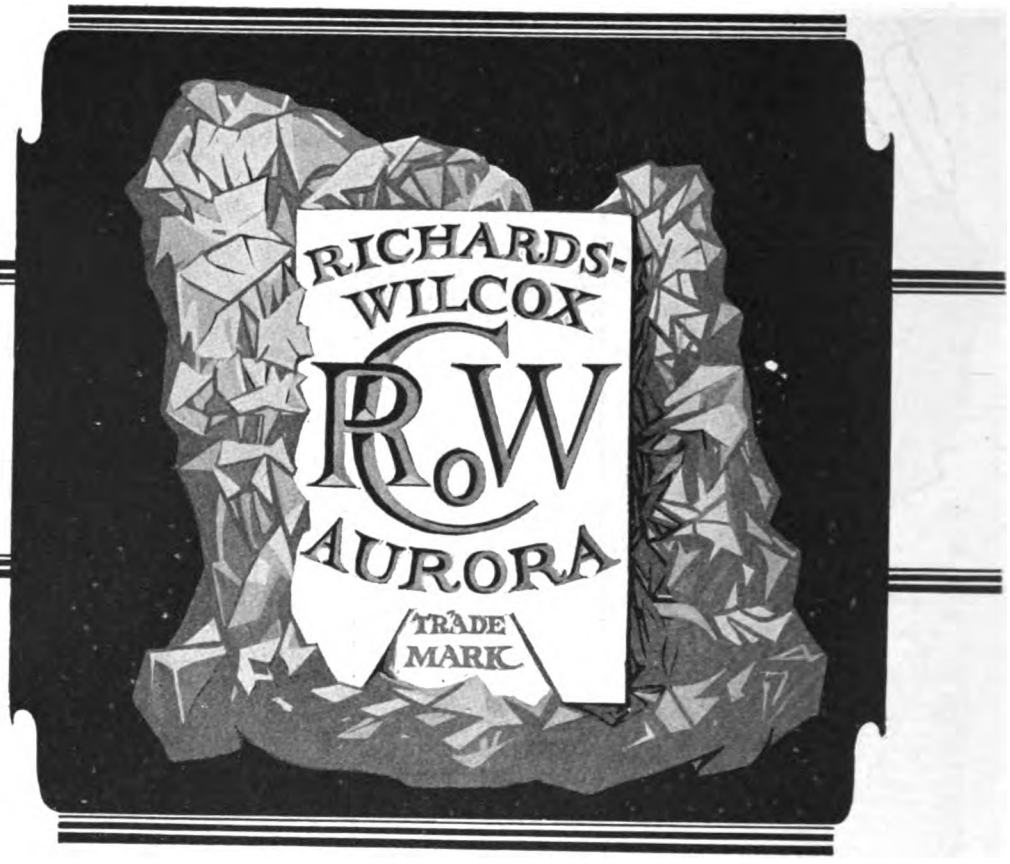
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METTLE *not* METAL

The Real Gold of a Trademark Symbolizes Quality and Service

A Richards-Wilcox trademark fashioned of gold would, if appraised by a goldsmith, be worth only the market price of the metal. As a symbol of R-W *service* and *quality* an R-W trademark has a value to the user of R-W products not restricted to dollars and cents.

For 45 years the Richards-Wilcox trademark has represented the highest quality of workmanship, the finest materials, and the most economical and satisfactory method of handling doors.

This trademark stands for the solution of *every* doorway problem—house, elevator, barn, industrial, fire and garage. Every door equipped with R-W hangers slides right. Joined to good products is good service—alert, practical, helpful. There's an R-W branch near you—or write our Engineering Department for all the co-operation you need to make doorways serve as doorways will when properly equipped. This service—symbolized by the trademark—is without cost or obligation.

R-W

"Slidetite" Garage Door Hardware
Vanishing Door Hangers
Barn Door Hardware
"Ideal" Elevator Door Hardware
Partition Door Hardware
Industrial and Milltype Door and Hardware
OveR-Way Conveying Equipment
Automatic Fire Doors and Fire Door Hardware
AiR-Way Multifold Window Hardware
Mounted Grindstones
Door Closers and Checks
Woodworking and Manual Training Benches
Rapid Action Woodworking Vises

Richards-Wilcox Mfg. Co.

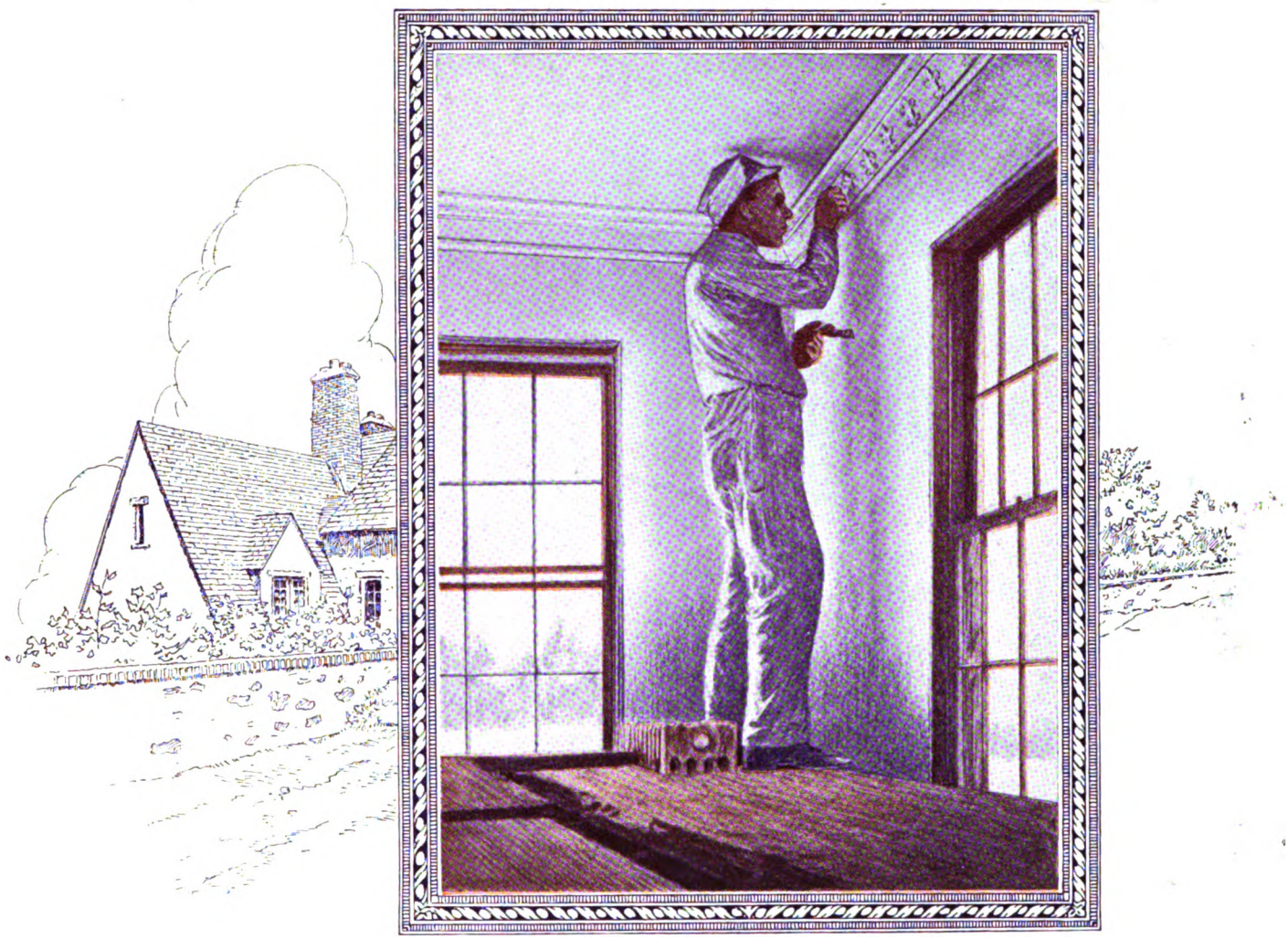
"A Hanger for any Door that Slides."

AURORA, ILLINOIS, U.S.A.

New York Boston Philadelphia Cleveland Cincinnati Indianapolis St. Louis New Orleans Chicago Minneapolis Kansas City Los Angeles San Francisco Omaha Seattle Detroit

Montreal · RICHARDS-WILCOX CANADIAN CO., LTD., LONDON, ONT. · Winnipeg

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Uniform high quality, maintained for more than a quarter century, has made *Tiger Finish* first choice of builder and plasterer.

Greater coverage, easy spreading and the fact that putty left in the box can be re-mixed, are practical reasons for the nation-wide preference for *Tiger Finish*.

The Kelley Island Lime & Transport Co.
World's Largest Producer of Lime
Leader-News Building
CLEVELAND

TIGER FINISH WALLS

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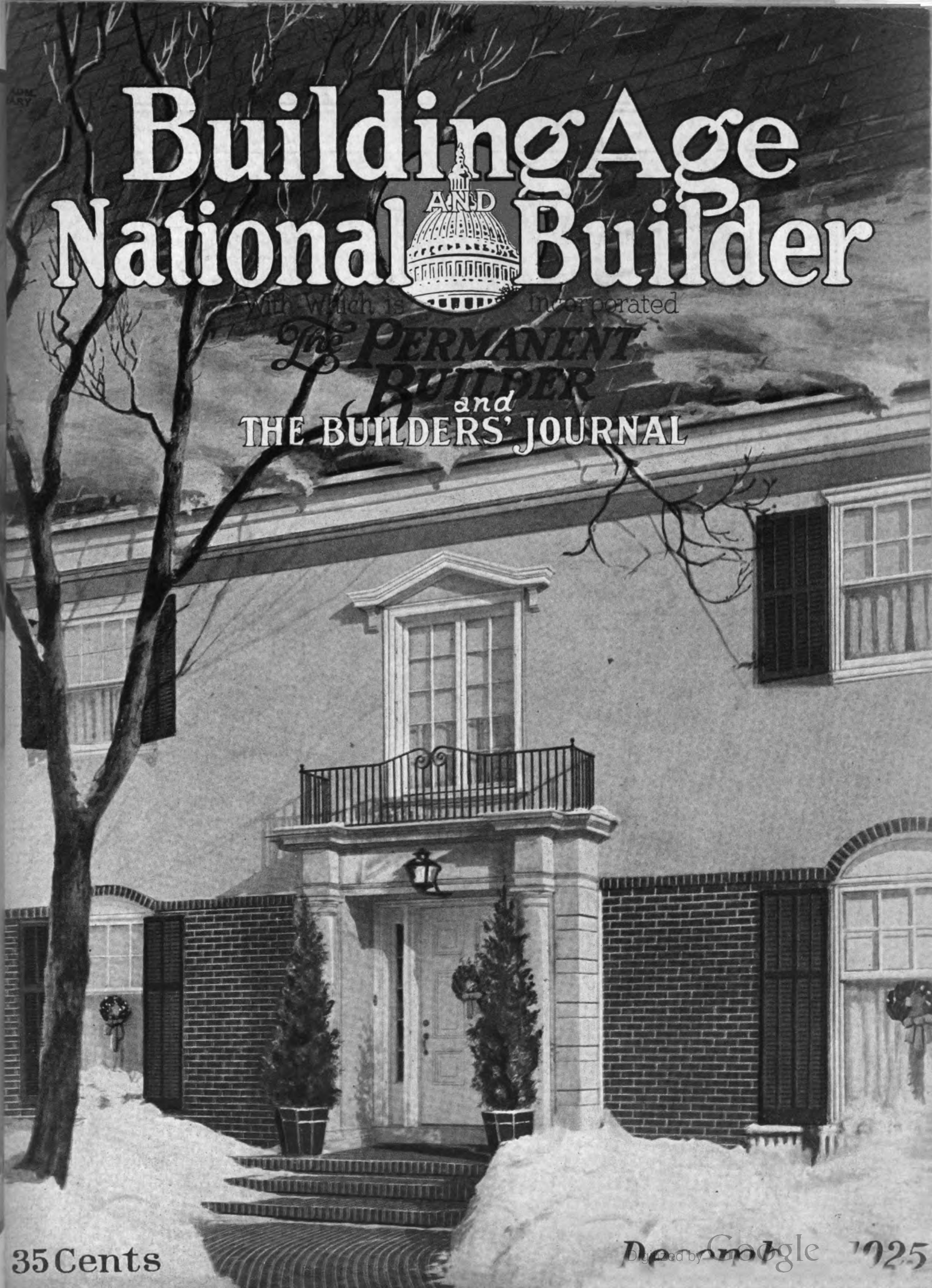


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Building Age and National Builder

With Which is Incorporated

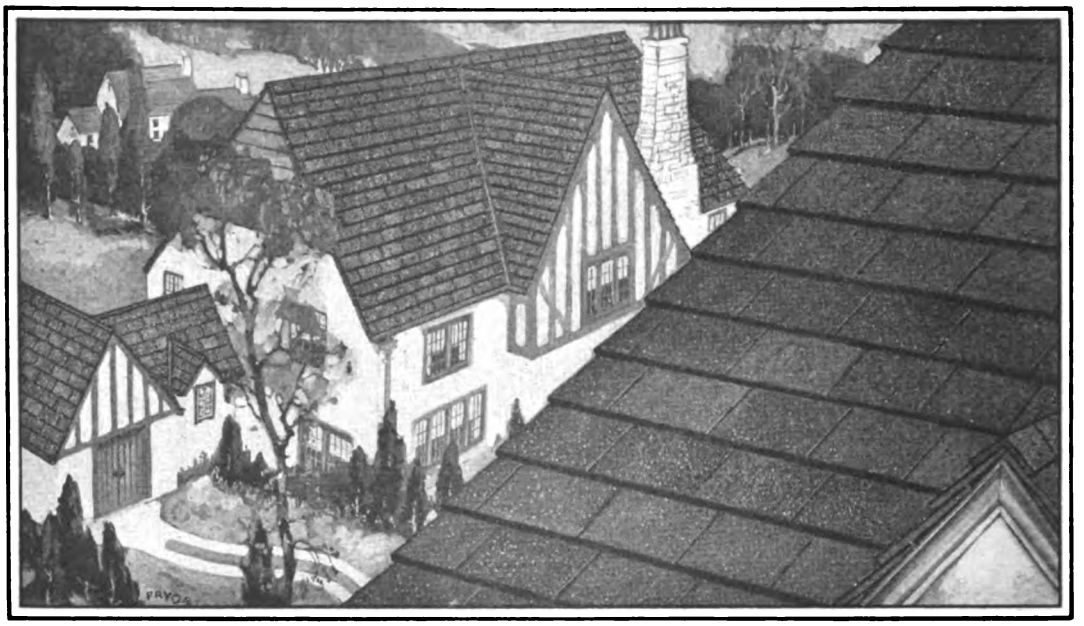
The Permanent Builder and The Builders' Journal



35 Cents

December 1925

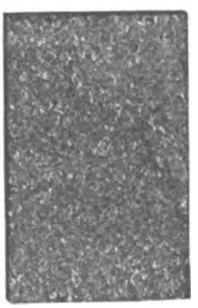
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The distinctive SHADOW LINE *that architects must have*

THE unusual thickness of "Massive" Weight Preston Shingles creates the definite shadow line that architects demand. It produces a roof that is thoroughly pleasing on the most exacting jobs.

This massive weight is much thicker than any other slate surfaced asphalt shingle on the market. It is approximately one-third thicker than a standard No. 1 slate shingle. Preston Rectangular Shingles are also made in "Extra Heavy" weight, which is approximately as thick as a standard slate shingle.



Preston Massive Rectangular Shingles are made in three colors —Red, Blue-black and Sunset. Preston "Extra Heavy" Rectangular Shingles are made in four colors, Red, Blue-black, Green and Sunset.

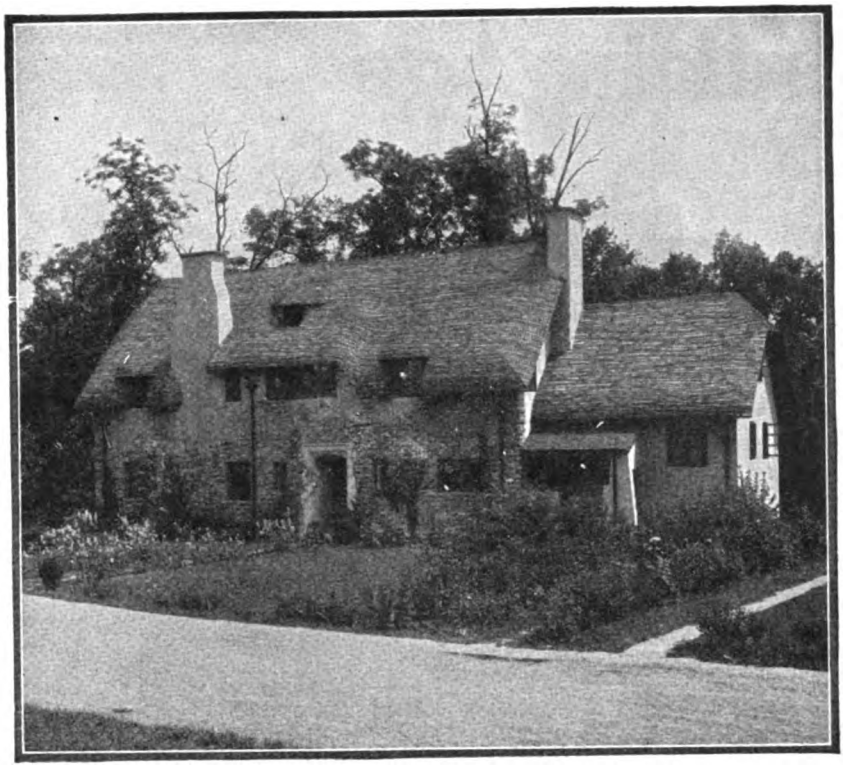
The colors of Preston Shingles are produced by the natural tints of the slate and stone particles with which they are surfaced.

We shall be glad to send you samples of Preston Roofing.

KEYSTONE ROOFING MANUFACTURING CO.
Dept. C-12, York, Pennsylvania

Preston ROOFING

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Res. of James Gilmore, Esq., Reg. Arch. Cincinnati, Ohio, Bishopric Ivoral Cream Stucco over Bishopric Base on all exteriors.

Stucco walls of greater strength

Ordinary Stucco



Bishopric Stucco



The enormous tensile strength of Bishopric Stucco is illustrated here. This is just one of the Bishopric guarantees of permanence on the wall.

How Bishopric provides
lasting beauty and protection

Rare beauty of shade and texture, with permanent protection from the elements are exclusive Bishopric qualities that are being appreciated more and more by those interested in home-building. BISHOPRIC is a super-stucco with greatly increased strength, thus providing durability and protection so vital to every building, whether it be large or small. In Bishopric only can be obtained the wide variety of beautiful shades and textures now demanded by those who appreciate the best. With Bishopric, beauty and protection go hand in hand.

Tensile strength tests show BISHOPRIC far superior to other stuccoes.

BISHOPRIC is fireproof, magnesia rock used is the same as that used to line furnaces and smelters — Tremendous heat has no effect on it.

BISHOPRIC is thoroughly waterproofed by a secret process shutting out moisture, cold, heat, wind and vermin.

BISHOPRIC Insulation Qualities are practically perfect, retarding heat cold, eliminating objectional noises.

BISHOPRIC requires no painting or renewing — A wall built to stand for generations.

In mansion or bungalow, Bishopric Stucco has a place, whether laid over stately lines or designed after those quaint cottage effects, now so popular.

Bishopric Stucco endures in every clime, retaining its strength and its original color in temperatures of either extreme. Economical in original cost, negligible in upkeep, warm in winter and cool in summer, BISHOPRIC STUCCO over BISHOPRIC BASE not only wins friends but keeps them. And no wonder, for it yields itself to any form and endures from generation unto generation.

An interesting booklet "Bishopric For All Time and Clime," illustrated with photographs of beautiful houses built with Bishopric Stucco, plaster and sheathing units will be mailed you Free.

Bishopric is Sold by Dealers Everywhere

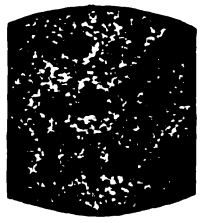
The BISHOPRIC MANUFACTURING CO.
17 ESTE AVE. CINCINNATI, OHIO
NEW YORK CITY CINCINNATI OTTAWA, CANADA

The BISHOPRIC MFG. CO. OF CALIFORNIA
LOS ANGELES

Ordinary Stucco



The average stucco being marketed today is extremely porous and therefore NOT WATERPROOF. Notice the spongy porous formation in this enlargement and compare the density of Bishopric shown below.



Bishopric Stucco

BISHOPRIC STUCCO over BISHOPRIC BASE

"A Complete Wall Unit for all Time and Clime"

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Building Age and National Builder
With Which is Incorporated
The Permanent Builder and
The Builders' Journal
Registered U. S. Patent Office

Vol. XLVII, No. 12

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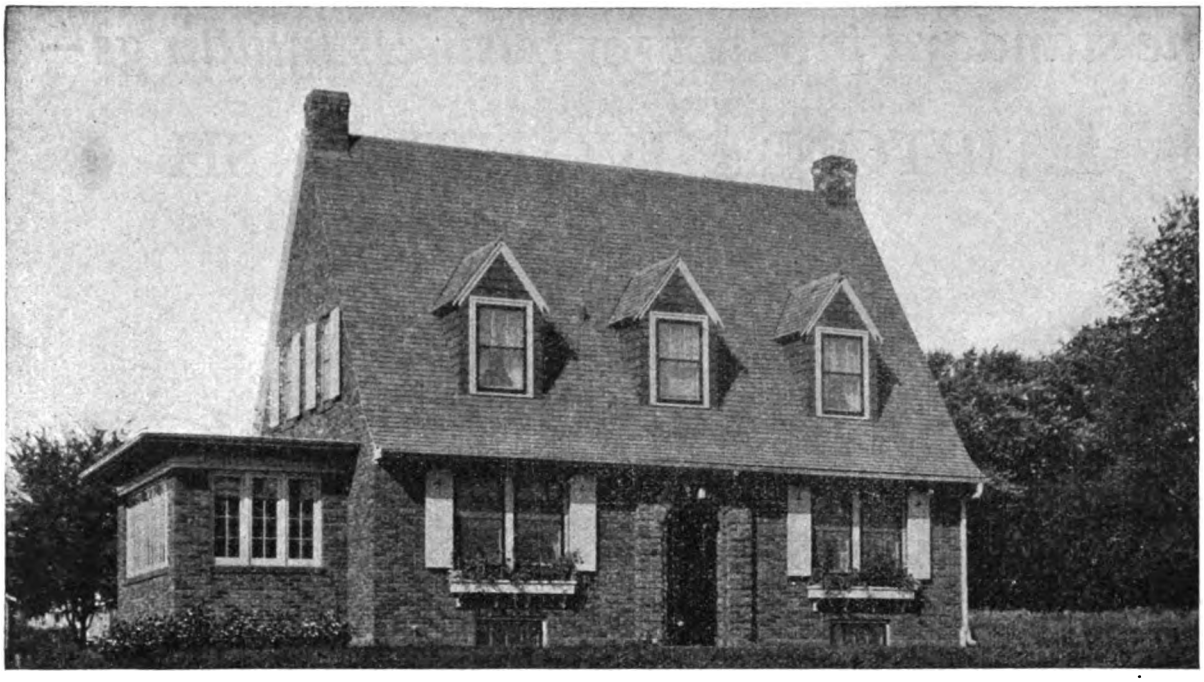
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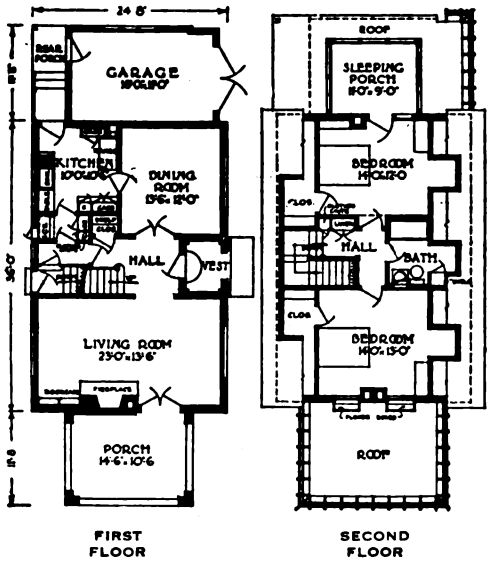
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This attractive little Face Brick house is our five-room design No. 529, as built in Iowa City, Iowa. The sketch and floor plans are reproduced as they are shown in our five-room booklet of "Face Brick Bungalow and Small House Plans."





A Face Brick Service for Contractors

CONTRACTORS in all parts of the country are meeting the increasing demand for small Face Brick houses by using the service which this Association offers.

If you are not acquainted with this service you will find it worth while to send for these booklets:

"A Manual of Face Brick Construction," 116 pages, a text book on the three types of Face Brick wall construction, giving the contractor all the information he needs in building Face Brick houses. Sent for one dollar.

"Face Brick Bungalow and Small House Plans," a series of 120 designs of Face Brick houses, distinctive in design, convenient in floor plan and economical to build, issued in four booklets showing 3 to 4-room houses, 5-room houses, 6-room houses and 7 to 8-room houses. The set, one dollar; single booklets, 25 cents each.

"The Home of Beauty," fifty 6-room houses selected from a nation-wide architectural competition. Sent for 50 cents.

"Two Apartment and Double House Plans," 14 attractive designs of duplex and double houses, showing 28 plans of 5 and 6 rooms each. Sent for 25 cents.

For all of the houses shown in these booklets complete working plans, specifications, etc., are available at nominal prices.

AMERICAN FACE BRICK ASSOCIATION
1764 Peoples Life Building · Chicago, Illinois

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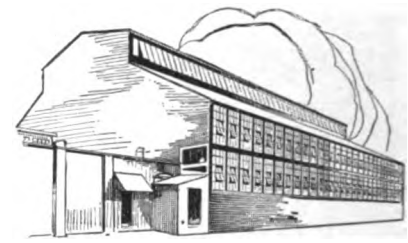
LUPTON PIVOTED SASH



Elevators



Warehouses

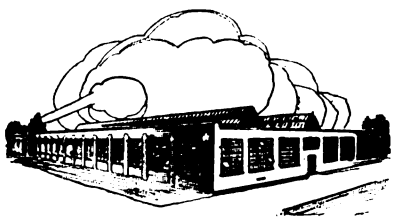


Mills

THERE is a shortage of over 75,000 commercial buildings in the U. S. today. This fact is revealed by an investigation conducted by "Building Age," reported in their October issue. Under the good business conditions we are experiencing, these buildings will undoubtedly be built.

You will no doubt take part in this tremendous building program, and you know that practically all of these commercial buildings will be of a type requiring plenty of good working light, controllable ventilation, and resistance to fire.

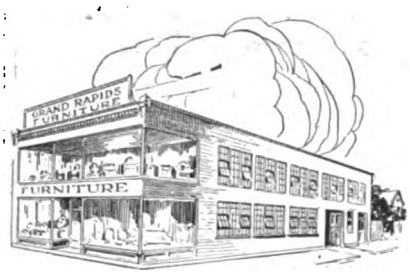
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Residence designed and built by R. L. Falkenberg & Co., Builders, 6247 Brookside Blvd., Kansas City, Mo. Celotex Insulating Lumber was used in this residence for insulation, and sound deadening with plaster applied directly to its surface.

"All homes we now build are insulated with CELOTEX"

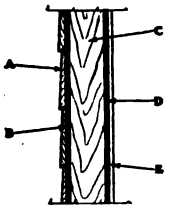
R. L. Falkenberg & Co., Kansas City, Mo.

IT happens again and again! A progressive building concern, like R. L. Falkenberg & Company, is quick to see the advantages of Celotex Insulating Lumber in building. They try it on one job. Then—"*all* our houses are built with Celotex." And they might add, "because it pays!"

Celotex houses cost no more to build

You can build these better, modern houses for no more than the cost of ordinary construction. Because Celotex *replaces* and saves the cost of *five* building materials.

Used as sheathing, Celotex replaces wood lumber. It is actually stronger in wall sections than wood lumber itself. It eliminates the use of building paper, giving better protection against wind and moisture. On inside walls plaster is applied directly to the surface of Celotex, forming a much stronger wall than lath and plaster. It takes the place of deadening felt, giving a restful quiet. *And*, wherever used, Celotex replaces any other insulating material, giving heat-stopping quality equal to the best.



A. Clapboards, brick or stucco. (See specifications)
B. Celotex Insulating Lumber.
C. Studding, or framework.
D. Celotex Insulating Lumber.
E. Plaster.

Application of Celotex Insulating Lumber: (B) in outside walls as sheathing. And (D) on inside walls.

Saves Labor and Material

Celotex saves in construction cost as well as in material. No special type of skilled labor is needed and any workman can apply Celotex easily and quickly. The broad, strong boards are light in weight, easy to handle—sawed, fitted and nailed just like wood lumber. A man can prepare a room for plastering with Celotex in approximately ⅓ less time than it would take to apply lath.

Free Specifications

House insulation is the coming thing in the building field—and every progressive contractor and builder will be quick to get the facts. Find out more about Celotex. It will help you get business and establish your reputation for building better houses.

Send the coupon below for complete specifications that show you just how easily Celotex Insulating Lumber is applied, and its many advantages in building. Do it now!

CELOTEX
INSULATING LUMBER

"THERE IS A USE FOR CELOTEX IN EVERY BUILDING"

THE CELOTEX COMPANY, CHICAGO, ILL.
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Send specifications and more information about Celotex.

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City..... *State*.....

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Here's Something New For You Builders

Why Not Make Grade-Marked Lumber a Selling Point In the Homes You Build to Sell?

YOU who build homes to sell know the best selling argument you can offer is *quality materials throughout.*

To the customer you point to the well known make of heating plant. You point to the plumbing, nationally known for its excellence, to the brand on the flooring, to the maker's tag on the lighting fixtures. You describe the beauty and durability of the Southern Pine used throughout—

Now, here's a *new* selling tip:

Use Southern Pine in your buildings that bears *the grade-mark* and point with pride to the fact that the buyer of that home can be certain the lumber in it was exactly the grade (quality) you and your architect specified.

Southern Pine Association mills, manufacturing under American Lumber Standards and cooperating with Herbert Hoover and the Department of Commerce, are now branding upon their lumber and timbers these marks:

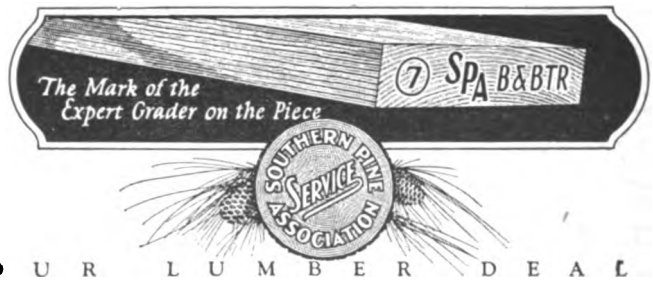
(7) A number in the circle which designates the individual mill that manufactured the lumber.

SPA These initials that guarantee this lumber was produced under the standard grading rules and authoritative inspection service of the Southern Pine Association.

B&BTR A mark which is the grade (quality).

Why not add these facts to your salesmanship?

Southern Pine Association
NEW ORLEANS, LOUISIANA



ASK YOUR LUMBER DEALER FOR GRADE-MARKED, TRADE-MARKED SOUTHERN PINE

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NORTH WESTERN Expanded Metal Products

Metal Lath for Your Every Need—

WHETHER the job on hand be a piece of plain or ornamental plastering, stuccoing, or fire or rat-proofing—you can be sure of finding the one best type of lath for it in the complete NORTH WESTERN line.

Your choice may be KNO-BURN, the copper-bearing 20TH CENTURY, CORRUGATED, LONGSPAN, or the very economical, ⅛" rib PLASTA-SAVER, so frequently used now in place of wood lath, etc. Whichever you may select, however, you know beforehand that you are getting a small-meshed lath—

ECONOMICAL in the use of plaster—yet perfect keying. A lath—

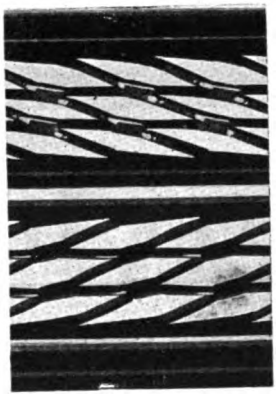
EASILY HANDLED—a stiff, straight, true-edged plaster base and reinforcing—

which enables you to do the high grade work which is most satisfactory and economical for yourself and your customer.

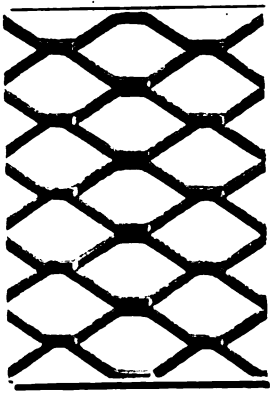
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1204 Old Colony Bldg., Chicago

PLASTA-SAVER
Metal Lath



KNO-BURN
Metal Lath



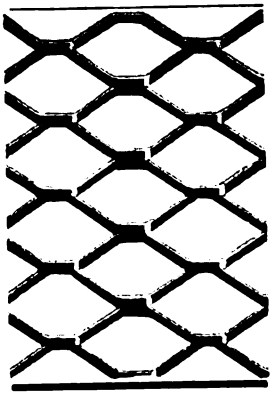


CORNER BEAD

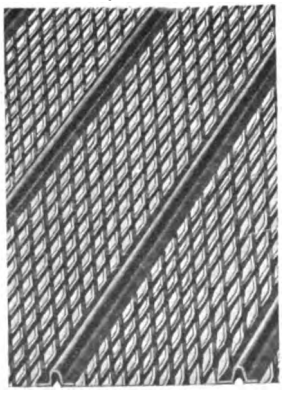


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20TH CENTURY
Metal Lath

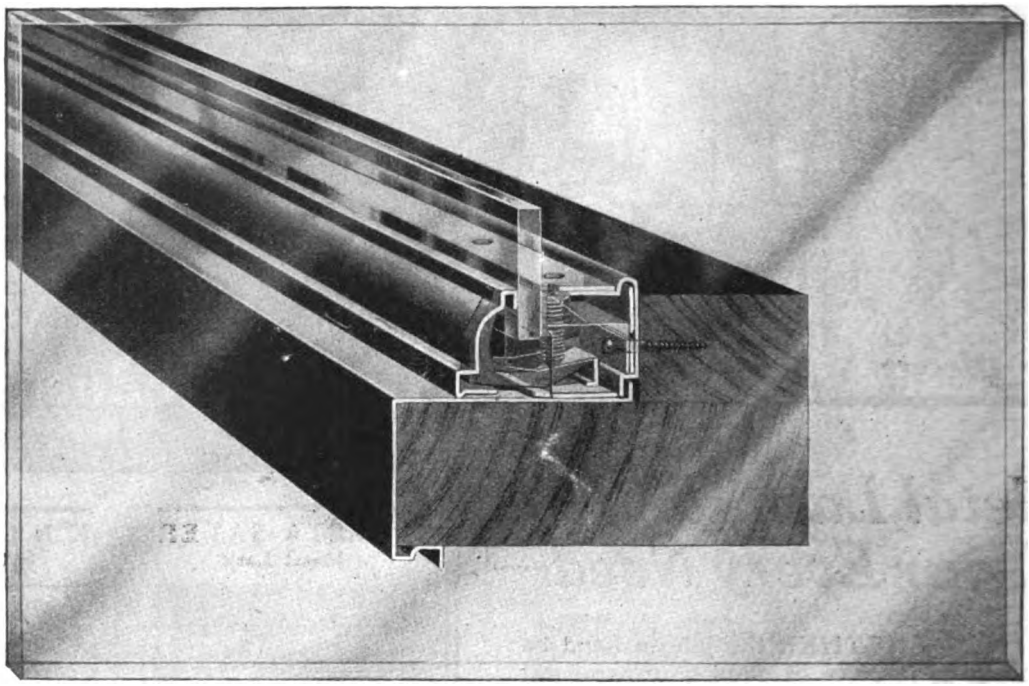


LONGSPAN
Metal Lath



Stocks in all principal cities. Samples and Specifications gladly sent free.

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Zouri Indirect Key-

BEHIND a broad expanse of plate glass stands Zouri—protection for both contractor and merchant.

Protection during installation, for the Key-Set construction distributes pressure equally at all contact points, eliminating the starting point for glass breakage. Protection after installation, for Zouri's gentle grip takes the shock



Useful detail sheets and data book

This handbook has been written for architects, contractors and builders. It deals primarily with construction and gives plans and diagrams showing best approved methods of window and display space arrangement. The detail drawings will be welcomed by specification writers. A word from you will bring them—promptly.

ZOURI KEY-SET STORE FRONT CONSTRUCTION

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-Set Store Fronts

out of sudden wind flurries, or accidental jolts and jars.

With the Zouri Key, setting is easy. Once the glass is in place, a twist of the keys brings the full length of copper moulding face into place, and holds it rigidly.

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We are manufacturers of Sheet and Tin Mill products for all purposes—Black Sheets, Apollo and Apollo-Keystone Galvanized Sheets, Corrugated Sheets, Formed Roofing and Siding Products, Sheets for Special Purposes, Roofing Tin Plates, Bright Tin Plate, Black Plate, etc. Sold by leading metal merchants.

Remember, when resistance to rust is a factor, it is important that you demand Keystone quality.

Its greatest testimonial is its users:

Important railroads use Keystone for roofing and new car construction.

The U. S. Reclamation Service, the U. S. Forestry Service, and Bureau of Public Roads use Keystone for the construction of culverts and flumes.

Prominent septic tank and vault makers use Keystone for greater durability.

Successful architects, engineers, contractors, roofers and builders use Keystone for maximum wear and rust-resistance.

Leading burial vault and casket manufacturers use Keystone for increased permanence and protection underground, where both service and sentiment demand enduring quality.

Keystone Copper Steel demonstrated its excellence in the service tests of the American Society for Testing Materials. Could you ask for more thorough and impartial proof?

Users everywhere favor Keystone for all purposes requiring lasting service. Send for *"Facts."*

American Sheet and Tin Plate Company

General Offices: Frick Building, Pittsburgh, Pa.

DISTRICT SALES OFFICES:

Chicago Cincinnati Denver Detroit New Orleans New York Philadelphia Pittsburgh St. Louis

Export Representatives: United States Steel Products Company, New York City

Pacific Coast Representatives: United States Steel Products Company, San Francisco, Los Angeles, Portland, Seattle

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"Best Labor Saving Device Ever Installed"

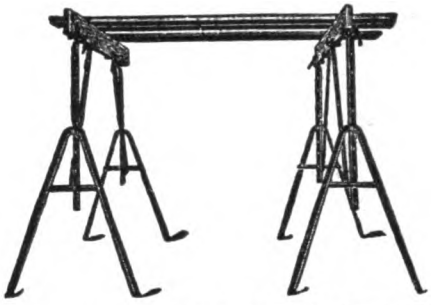
W. G. METZER & BROS
Buffalo N.Y.

That is what this firm writes us after using *Trouble Saver* Adjustable Trestles almost every day for eight years.

The hours it takes workmen to set up wooden scaffolding are reduced to a few minutes when using *Trouble Savers.* They can be dismantled just as quickly. Fold up in compact form for easy carrying and require little storage space.

Trouble Savers on the job advertise you to passers-by as an efficient contractor, using modern equipment.

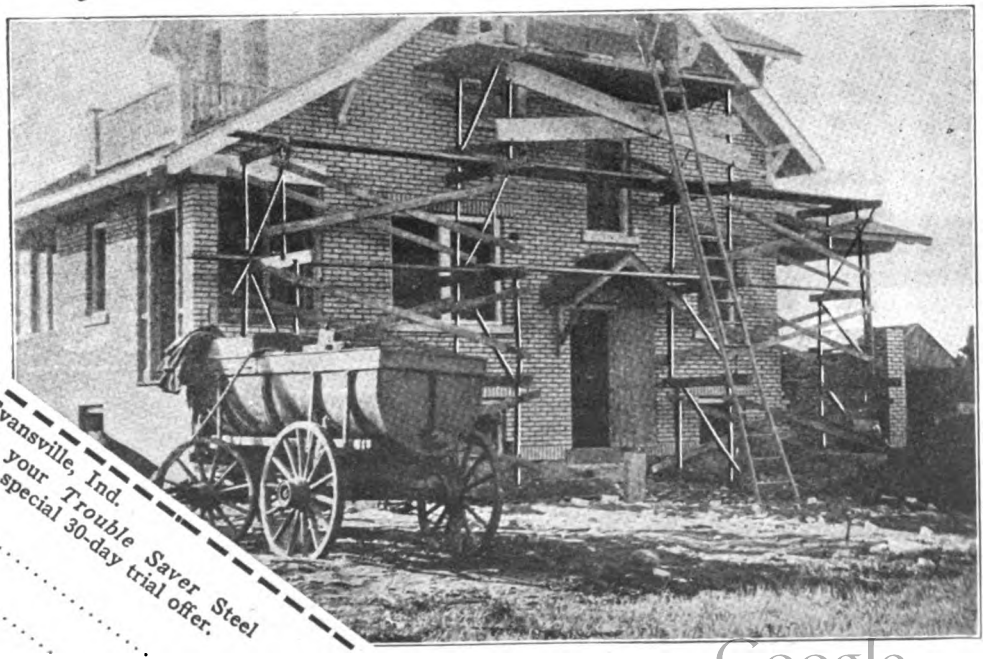
Fill in the coupon below and we will send you complete information about the *Trouble Saver* Line.



The Steel Scaffolding Co.

Evansville, Indiana

Sectional Steel Scaffolding used on building constructed by Wm. G. Metzer & Bros., Buffalo, N. Y. In addition to Sectional Scaffolding, the *Trouble Saver* Line includes Adjustable Trestles, Carpenter Brackets, Stucco Brackets, etc.



THE STEEL SCAFFOLDING CO., Evansville, Ind.
Please send me complete information on your *Trouble Saver* Steel Scaffolding and also information about your special 30-day trial offer.

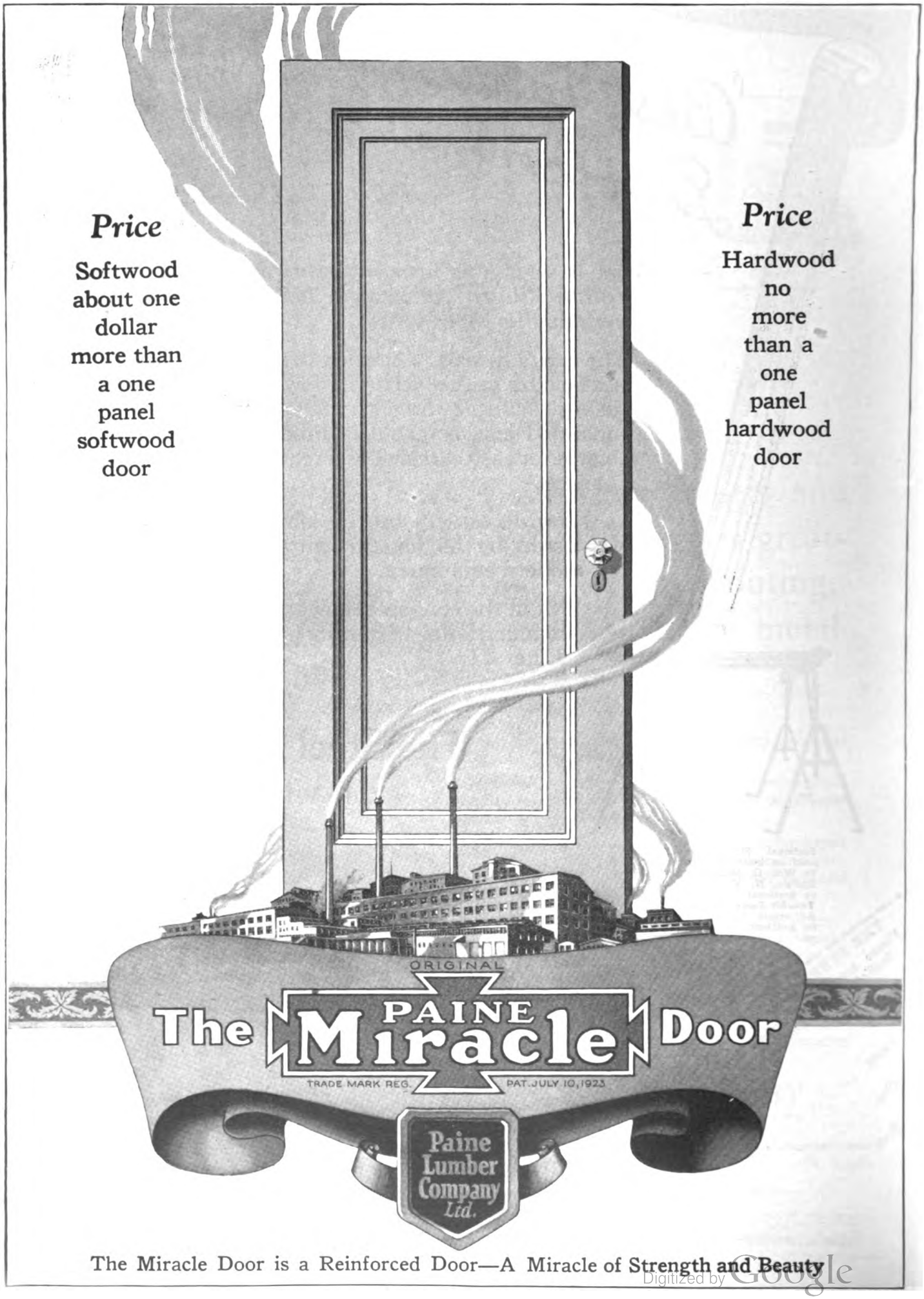
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City .....

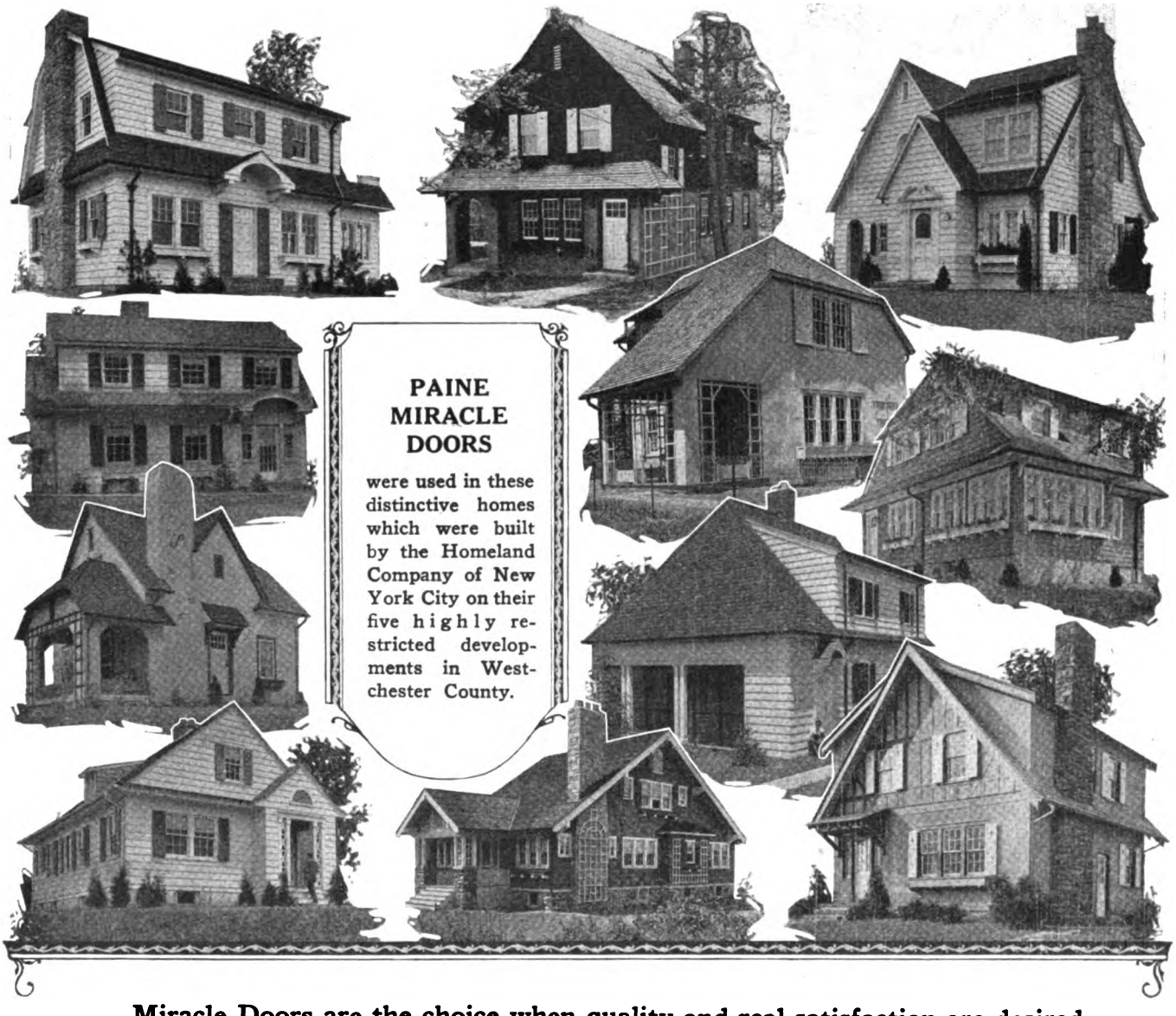
State .....

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Beautiful Homes with Beautiful Doors



Miracle Doors are the choice when quality and real satisfaction are desired. Made by entirely new patented standards of precision, they are a Miracle of strength and beauty.

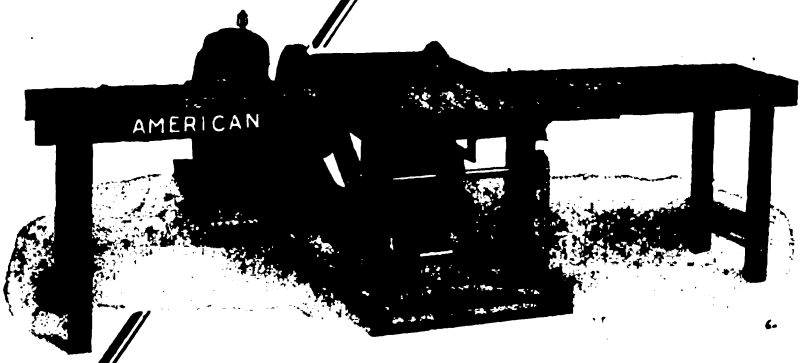
Each door bears the label "Paine Miracle Door," which gives evidence to the buyer that he is getting a product of nationally known value.

Miracle Doors are made in all woods—each door fully guaranteed.

The Miracle Door adapts itself to the many styles of architecture. It is suitable for all types of buildings, including homes, hotels, hospitals and office buildings.

Paine Lumber Company, Ltd., Oshkosh, Wisconsin

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A Reliable Heavy Duty Rip and Cut-off Saw

This rugged machine is designed to rip and cut off heavy timbers such as are used in bridge and dock work, heavy framing and in making concrete forms.

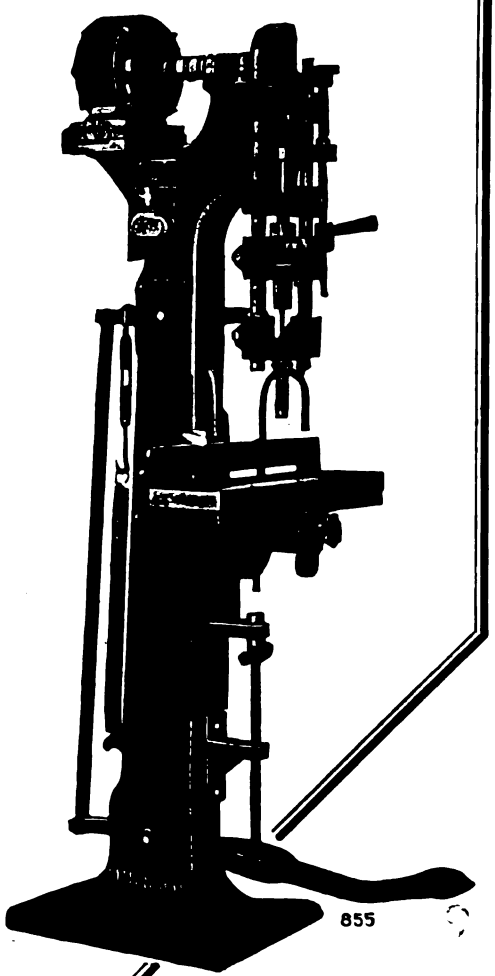
The saw is moved forward by the treadle. The extension tables may be detached and the legs collapsed for convenience in moving.

Guide rails are supplied which may be used either at the rear or front sides of the extensions as convenience dictates.

The substantial steel ripping guide is adjustable to any position on the table. A clamp screw holds it in place. The swinging iron frame which carries the saw is locked securely in place when ripping is done.

The design and construction of this rugged machine makes for quick, accurate work and long life under hard conditions of use.

This and other "American" cost cutting, woodworking machines are fully described in our Bulletin No. 80.



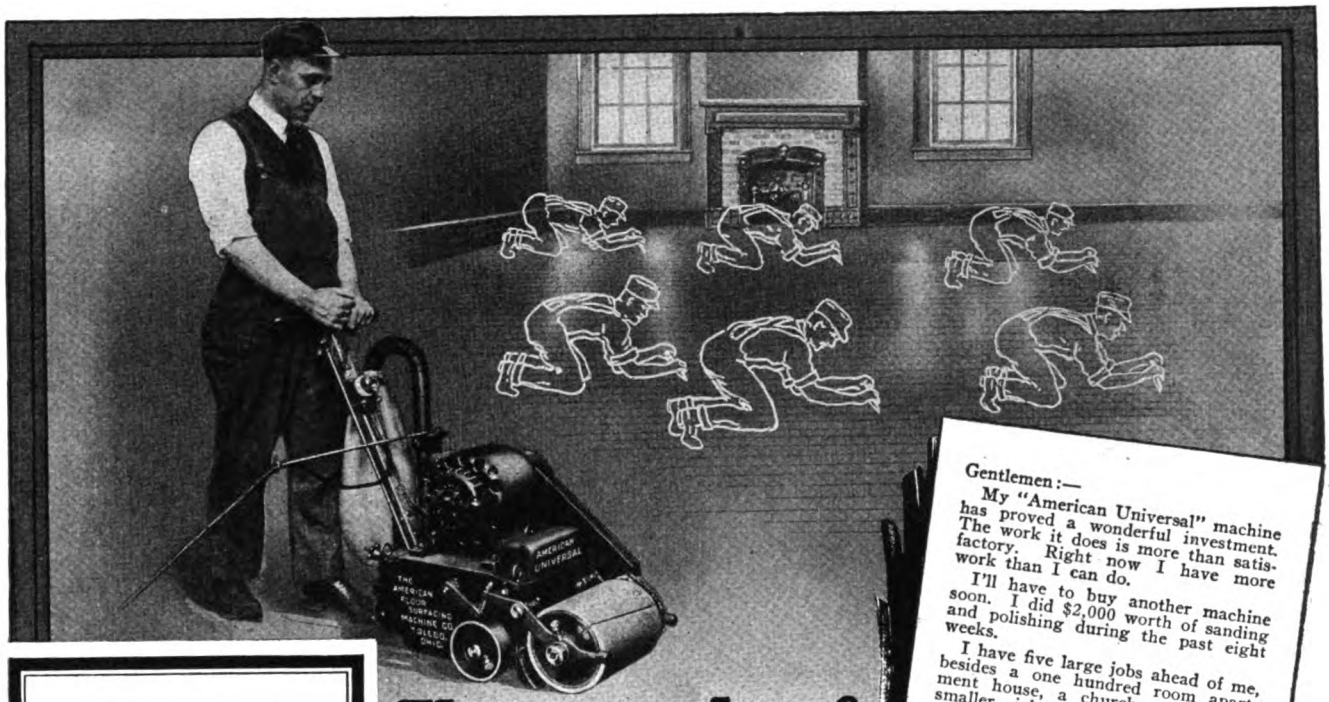
Vertical Hollow Chisel Mortiser No. 855.

AMERICAN SAW MILL MACHINERY CO.

61 Main Street, Hackettstown, N. J.
1361 Hudson Terminal Bldg.
New York City

Manufacturers of
WOODWORKING MACHINERY FOR USE ON THE JOB OR IN THE SHOP

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6 Reasons Why It Will Make Money for You

1—Saves the wages of four to six men scraping by hand.

2—Saves costly labor turnover by keeping your organization together the year around.

3—Makes each man an individual producer.

4—Increases volume of work, making possible more rapid turnover of capital.

5—Produces perfect work—sanding down floors as smooth as a table-top.

6—Low maintenance costs—low labor costs.

Thousands of Dollars made by "American Universal" owners

Gentlemen:—

My "American Universal" machine has proved a wonderful investment. The work it does is more than satisfactory. Right now I have more work than I can do.

I'll have to buy another machine soon. I did $2,000 worth of sanding and polishing during the past eight weeks.

I have five large jobs ahead of me, besides a one hundred room apartment house, a church, and several smaller jobs. It looks like my "American Universal" will be kept busy day and night for the next three weeks.

There is $10,000 a year in an "American Universal", if the man has the "guts" to work it out—and that's just what I'm doing.

C. M. DICKENS,
198 Ocean View Ave.
Norfolk, Va.



Contractors everywhere in the United States have realized the opportunity opened to them by the use of the American Universal Floor Surfacing Machine to actually add thousands of dollars a year to their incomes. It not only makes them big money during the busy season, but adds greatly to their profits during the slack, winter months.

Any contractor without an American Universal Floor Surfacing Machine is increasing his payroll by six men each day he pays his men for scraping floors by hand.

Think what it means to your payroll over a period of a year, and what it would mean in profits over the same year if you owned an

American Universal
FLOOR SURFACING MACHINE

Send for this Folder To-day



On 10,000 Telephones

All over the United States today Mrs. Brown and Mrs. Smith and Mrs. Johnson are calling up American Universal Floor Surfacing Contractors and giving orders for work. Every American Universal Floor Surfacing Contractor is busy. The business is becoming so demanding for this way. Users, how much better a smooth, even surface can be brought out by the American Universal Floor Surfacing Machine.

Not Only New Buildings, but Old Buildings

must have their floors resurfaced. You are the logical man to handle this business. With your acquaintance and knowledge, and an American Universal you can secure enough business to keep the money rolling in the year 'round.

WRITE US FOR FREE DETAILS

and full particulars regarding the wonderful, money-saving, profit-building possibilities "American Universal" machines offer to the live contractor and builder. Have us send you descriptive literature and letters from dozens of enthusiastic users.

The American Floor Surfacing Machine Co.
514 South St. Clair Street — Toledo, Ohio

The American Floor Surfacing Machine Co.
514 So. St. Clair St., Toledo, Ohio

Gentlemen:—

I want to know how I can make more money with the "American Universal" Floor Surfacing Machine.

We do our own floor surfacing work. ☐ We sublet all our floor surfacing. ☐

Firm Name.....

Address .....

City..... State.....

My Name is.....

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1 The base is Ohio Metal (copper bearing steel) highly rust resistant and providing maximum strength and rigidity.

2 The base is Terne coated (combination of lead and tin) dispensing with acid pickling which might leave some traces of acid in the seam.

3 AFTER forming the pipe is *dipped by hand* in pure zinc, giving a complete protection both inside and outside to surfaces, edges and seams, and the heaviest zinc coating possible to obtain.

"Inasmuch as it is the policy of the Wheeling Corrugating Company to provide its customers with maximum value, the manufacture and stock of Conductor Pipe made of 29 gauge and lighter material has been discontinued. For best service, Conductor Pipe made of 28 gauge and heavier Galvanized Sheets is recommended."

Wheeling

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Surfaces — Edges — Seams Protected from Rust by Zinc-Coating After Forming

An outer shell of pure zinc—a perfect shell of rust protection united with the base metal—gives Wheeling Hand Dipped Conductor Pipe enduring resistance to the elements and insures longer life. The full value of this protection is obtained by the Wheeling process of zinc-coating AFTER forming. Surfaces and edges are completely covered. Seams are permanently sealed.

Combined with this in Wheeling Hand Dipped Pipe is the rigid strength of copper bearing Ohio Metal, which constitutes the base structure. Damage by crushing, denting and other disfigurement is scarcely possible.

In developing this unusually serviceable conductor pipe Wheeling engineers took advantage of three fundamental factors in prolonging conductor life—copper-bearing steel, terne coating and hand dipping the *completed* product in pure zinc.

Specify Wheeling Dipped Conductor Pipe to insure a perfect job for any climate. Write for a sample—examine it—see for yourself that it is made to give you the most economical service you can buy.

WHEELING CORRUGATING COMPANY
WHEELING, W. VA.

New York	Philadelphia	Kansas City	Richmond
Chicago	St. Louis	Chattanooga	Minneapolis

Wheeling Heavy Extra Coated Eaves-trough

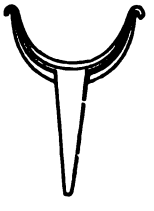
To provide complete equipment for all construction Wheeling Extra Coated Eaves-trough, made of Ohio Metal, is provided in both lap and slip joint styles. This is recommended for use with Wheeling Hand Dipped Conductor Pipe.



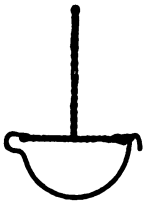
One piece Corrugated Conductor Pipe Elbows and shoes



Hinged hooks plain or corrugated for brick or wood



Round hooks wired



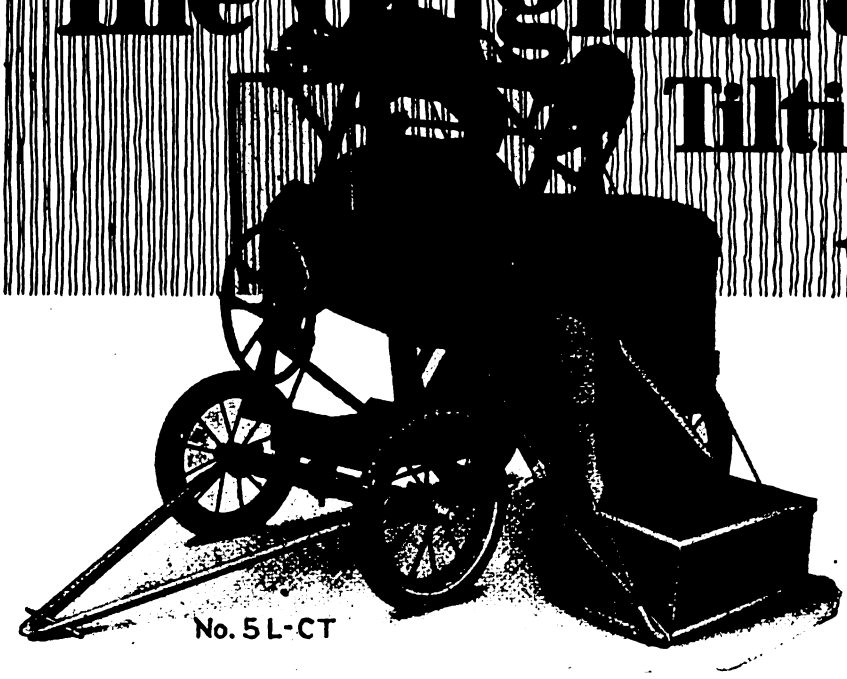
Galvanized Steel Wire Eaves-trough Hangers

HAND DIPPED Conductor Pipe

and Wheeling Building Materials

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The Original Jaeger Tilting Drum Mixer



ONLY in the original Jaeger Tilting-Drum will you find the split paddles and flat spots that mean perfectly mixed concrete.

Entire Satisfaction!

THAT phrase completely expresses the feeling of Jaeger owners! For Jaeger Mixers create pride of possession—assurance of low cost operation—and time and labor savings that spell profits! The contractor who buys a Jaeger has purchased a mixer with a reputation for service! And scores of unsolicited letters from successful builders tell us "I'm proud of my Jaeger's record!"

Built-In Quality

The sturdy Jaeger Mixers have quality and value "inbuilt." Every piece of material used in their manufacture is carefully selected and tested. Every bolt and nut and screw—and every sheet of steel—is chosen for proven reliability under stress and strain. And no mixer leaves the Jaeger plant without thorough inspection and a gruelling "try-out."

Jaeger Mixers have exclusive, patented advantages. The Jaeger Tilting-Drum Power Loader—Accurate Measure Water Tank—and Gravity Discharge Device are to be found only in a Jaeger Mixer. High quality—low price—and nominal operation and upkeep cost make Jaeger Mixers equipment any contractor can well be proud to own.

Write us today for catalog—prices—and the name of our nearest dealer.

Jaeger

The Jaeger Machine Company

216 Dublin Avenue **Columbus, Ohio**

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The MASTER FLOOR SANDER

Saves Time and Money

Weighs only 230 lbs., yet, when operating, 150 lbs. is actually on the drum—a larger proportion of useful weight than any other sander on the market.

Holding back on front bar presses down on rear wheels or up on rear of machine, throwing most of the weight of motor on the drum. No lifting is necessary. Easiest machine on the market to operate. Runs much faster. Cuts faster—makes money faster.

Mail Coupon for Descriptive Folder

MASTER WOODWORKER MFG. COMPANY
612 Brush Street DETROIT, MICHIGAN

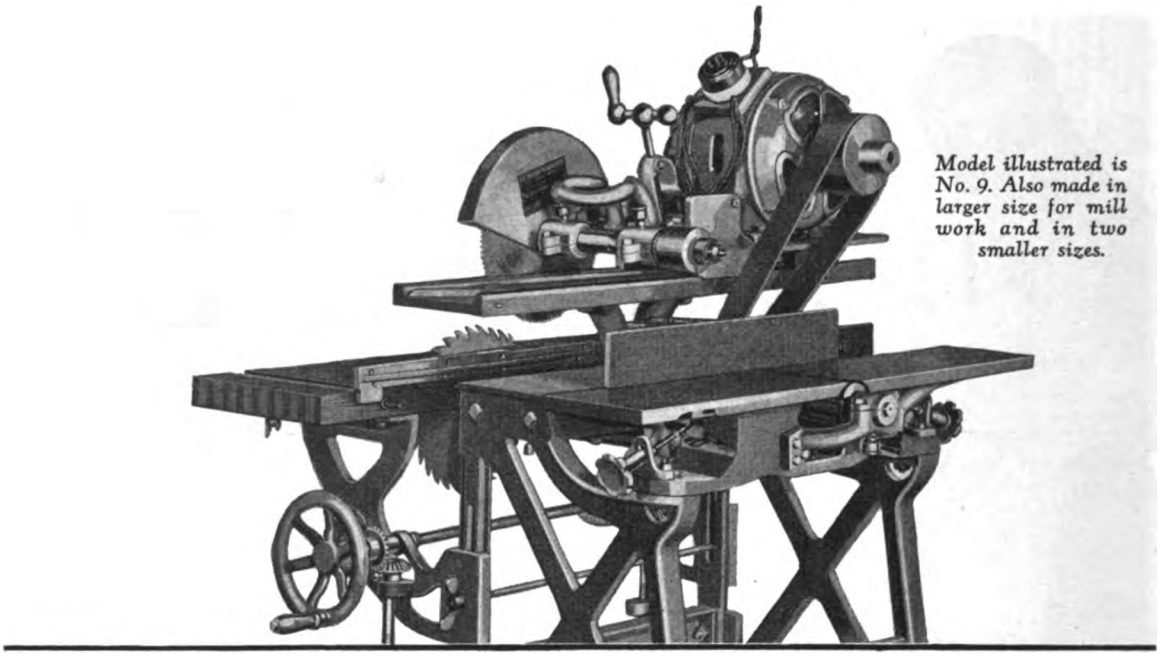
Master Woodworker Mfg. Co.
612 Brush Street
Detroit, Michigan

Send me your new folder together with offer showing how I can buy a Master Floor Sander on small payments allowing machine to pay for itself.

Name_____

Address_____

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Model illustrated is No. 9. Also made in larger size for mill work and in two smaller sizes.

The Master Woodworker

We make great claims for the Master Woodworker and we offer to prove every claim without asking you to risk a cent. We promise it will save you five expert men's labor. Think of the saving that will mean in the course of a year.

We promise you it will speed up your work, enable you to take contracts at closer prices, increase your profits and give you troubleless service day after day.

This is the way we will prove these statements.

We will sell you a "Master" for a small payment down and easy monthly payments and if you are not thoroughly satisfied that it does just as we claim, you may send it back within any reasonable time and we will return all of your money.

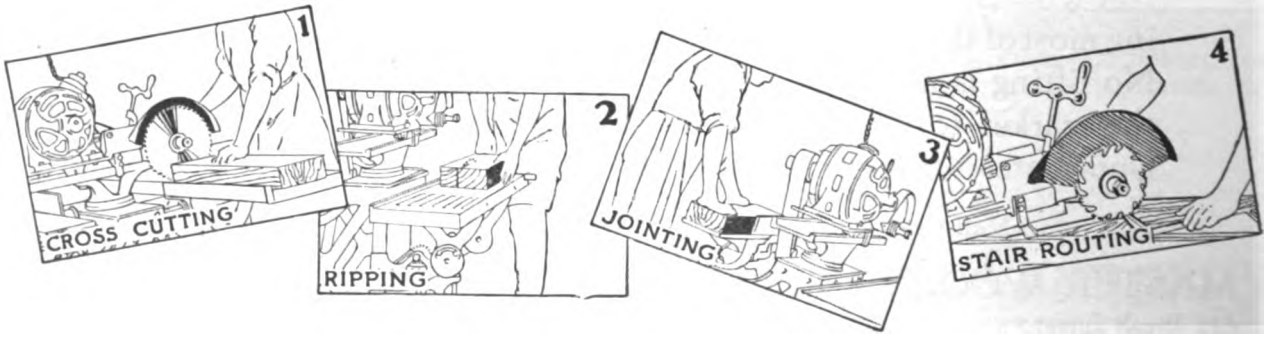
We have made this offer for the last five years. Thousands of machines have been shipped to all parts of the country and only one man has ever asked for his money back and that was a man who could not get suitable current to run his machine. Can you ask for more convincing proof of the value of a "Master", of its reliability and its savings?

You Can Do This With It

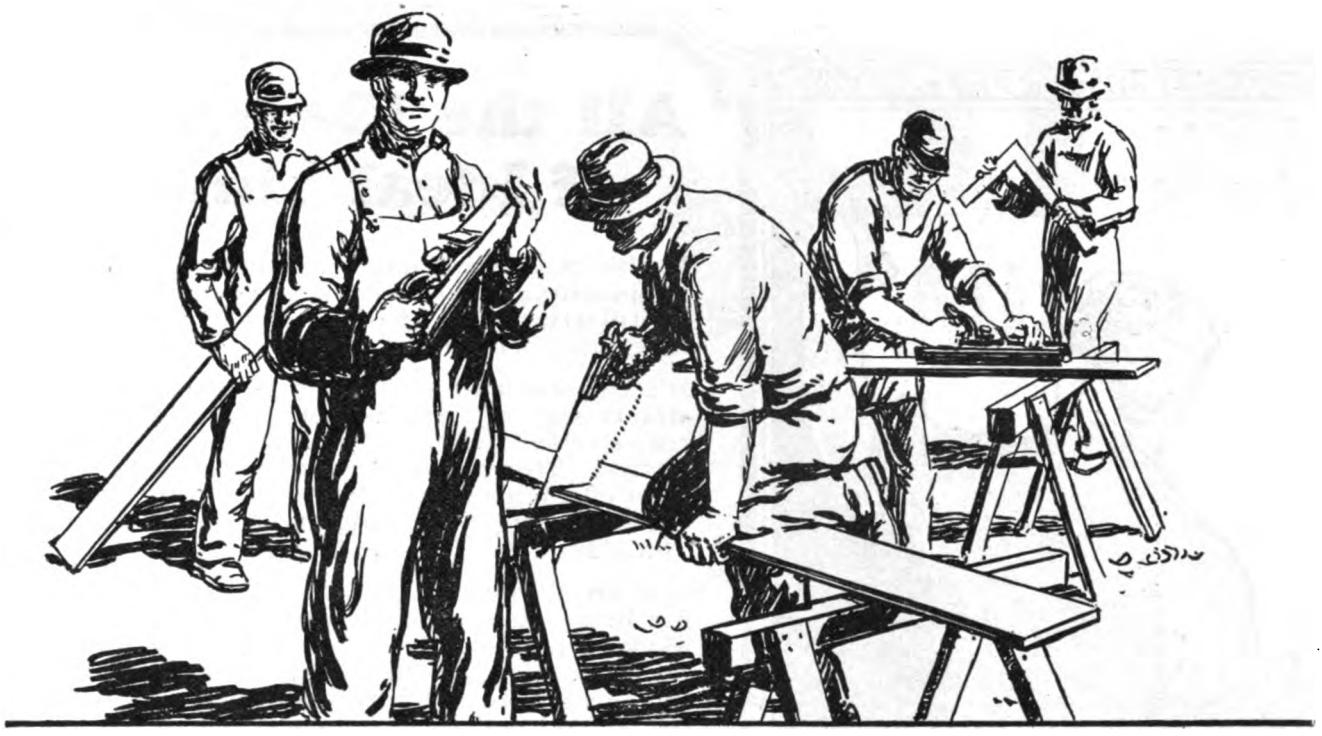
Makes every cut necessary for house building or inside finishing.

Handles eighty per cent of all the work in most cabinet, pattern or carpenter shops.

It is twelve machines in one—the fastest and most accurate woodworker on the market.



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Equals the Work of Five Men

It cross cuts 4" thick, rips 4" thick, dadoes—does routing, planing, rabbiting, boring, ripping, grinding, stair housing, jointing, moulding, cross cutting, tenoning, mitering, plowing and mortising.

It is not a saw rig but a complete woodworker. The saw travels at any angle and goes through work the natural way.

It is connectable to 110 or 220 volts and can be easily transported from room to room by a couple of men or changed from job to job in a Ford pick-up. Works accurately—no vibration. Work at all times visible to the operator. It is sturdy and reliable and will last a life time.

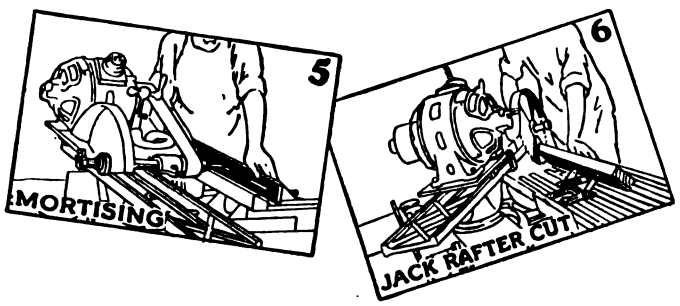
Buy it on Easy Payments—Send for New Catalogue

We will sell a "Master" to you on such easy payments that you cannot afford to go another month without it. Mail coupon below for our new catalogue which will show complete details, blue prints, operations performed and testimonials.

MASTER WOODWORKER
MANUFACTURING COMPANY

Brush and Congress Streets DETROIT, MICHIGAN

Mail This Coupon for Free Big Book



Master Woodworker Mfg. Co.
Brush and Congress Streets
Detroit, Michigan

Send me your Big Book free showing me how to save 5 Men's Wages.

*Name*_____

*Address*_____

*City*_____ *State*_____

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All the Elements of Ideal Lime

In this progressive age, when marvelous developments are to be seen on every side, there is still one standard of quality which has never been bettered.

It's the standard set by nature herself. It stands supreme and unchanging, like the remarkable quality of limestone in our quarry. This deposit left by nature in her most efficient mood, is being made into the finest quality of finishing and building hydrated lime that has ever been produced.

In it are all the elements of ideal and enduring lime—purity, uniformity and strength. Modern manufacturing methods conserve these qualities, but the magic hand of nature put them there. It is to your advantage to specify and use any one of these brands.

THE WOODVILLE LIME PRODUCTS CO.
Toledo, Ohio



White Enamel Finishing Hydrated Lime



White Lily Gold Medal

IT'S QUALITY FROM STONE TO FINISH



"The Quality~ ~is in the Limestone"

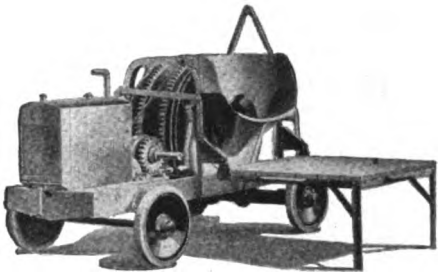
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KOEHRING DANDIE Light Mixer

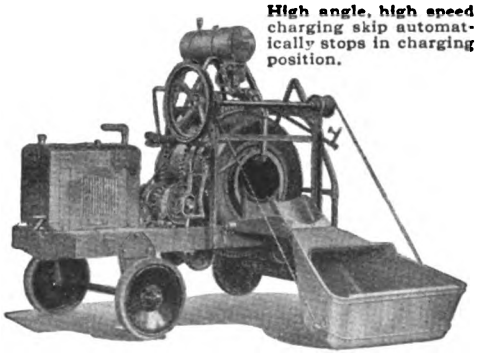


Koehring Dandie 107-S. Two or four cylinder gasoline engine. Transmission in oil bath. Mounted on roller bearings. Power charging skip or hopper and platform. Rubber tired disc wheels, or steel rimmed wheels. Complies with A. G. C. Standards.

Wide charging hopper takes full batch and is angled to shoot aggregate into drum in swift clean slide.



High angle, high speed charging skip automatically stops in charging position.



HIGH speed operation! Balanced lightness for fast hauling! Trouble-proof long service life! All in the same mixer, and the price still within the price range for light mixers! Koehring engineering, big volume and standardized production have done it in the

KOEHRING DANDIE Light Mixer

Not the cheapest mixer—but we believe the fastest, strongest mixer in the light mixer field. Extraordinarily fast charging, liberal drum dimensions and fast discharging controlled from either side makes it the big profit earner. Send back the coupon today.

KOEHRING COMPANY MILWAUKEE WISCONSIN

PAVERS, MIXERS--GASOLINE CRANES, DRAGLINES AND SHOVELS

Sales Offices and Service Warehouses in all principal cities

Foreign Dept., Room 1370, 50 Church St., New York City

Canada, Koehring Company of Canada, Ltd., 105 Front Street, East, Toronto, Ontario

Mexico, F. S. Lapum, Cinco De Mayo 21, Mexico, D. F.

Send Back the Coupon for Full Details!

Take our word for it, you will be putting yourself in the way of extra profits and extra value if you learn all about the details of this Dandie Model before you decide on a one bag light mixer. No obligations. Send back the coupon today!

A 2861-I

KOEHRING COMPANY, Dept. D—4 MILWAUKEE, WIS.

Without obligation to me of any kind, send me free information about the Koehring Dandie Light Mixer.

Name_____

Address_____

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Use Sargent Easy Spring Locks on all the inner doors

LOCKS for inner doors require just as careful selection as those for entrance doors. Frequently builders, who are most particular about locks and hardware for front, side or rear doors, think that anything will do for the doors inside. And this is a mistake that often and expensively "comes home to roost."

Sargent Easy Spring Locks are not expensive by any means, costing but little and sometimes no more than inferior locks. But in ease of operation, in strength of construction and in permanence of service, they are worth much more.

Because of the "easy spring" arrangement, the knob and latch bolt move with a minimum of effort—a most desirable feature for continuously opened and closed inner doors.

Sargent Easy Spring Locks for interior doors are as carefully made as the well-known Sargent Easy Spring Cylinder Locks for entrance doors and other Sargent builders' fittings. Glass knobs or brass or bronze knobs and handles to go with these locks are as beautiful and in as great a variety of styles and sizes as any builder could possibly desire.



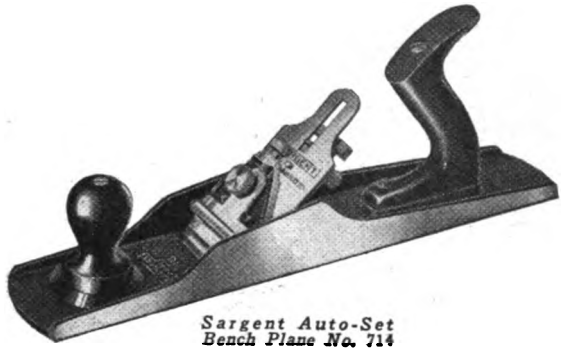
Sargent Hardware for buildings of every style and price

SARGENT & COMPANY, *Hardware Manufacturers,* 52 Water Street, New Haven, Conn.

SARGENT
Locks & Hardware

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SARGENT
Tools & Hardware



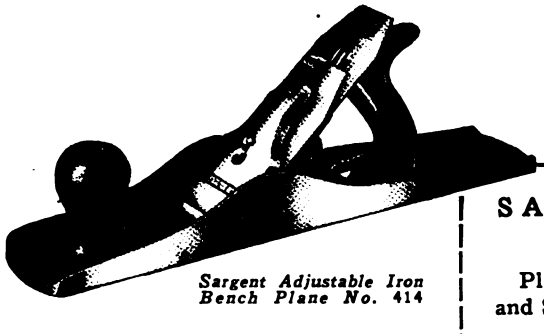
Sargent Auto-Set
Bench Plane No. 714

Sargent Auto-Set Bench Plane is in a class by itself

THE Sargent Auto-Set is a decided advance in plane design. The way the chromium steel, non-chattering cutter is held—the greater space between frog and handle—and the simplicity and strength of every part combine to make the Auto-Set the handiest all-round plane ever built for professional service.

When the cutter needs sharpening, it may be removed and replaced without changing original adjustments. Yet in place, the cutter is absolutely rigid even when cutting across or against the grain. Furthermore, chromium steel is one of the finest edge-taking, wear-resisting alloys ever used in a cutting tool.

A trial will convince you that the Sargent Auto-Set speeds and improves work, and that it does not "eat up" the worker's energy, even in prolonged operation. For those who stick to old favorites, there are other Sargent Planes which have no superiors in their respective classes. See them at your dealer's and mail coupon for free descriptive booklets.



Sargent Adjustable Iron
Bench Plane No. 414

SARGENT & COMPANY, *Manufacturers*
52 Water Street, New Haven, Conn.

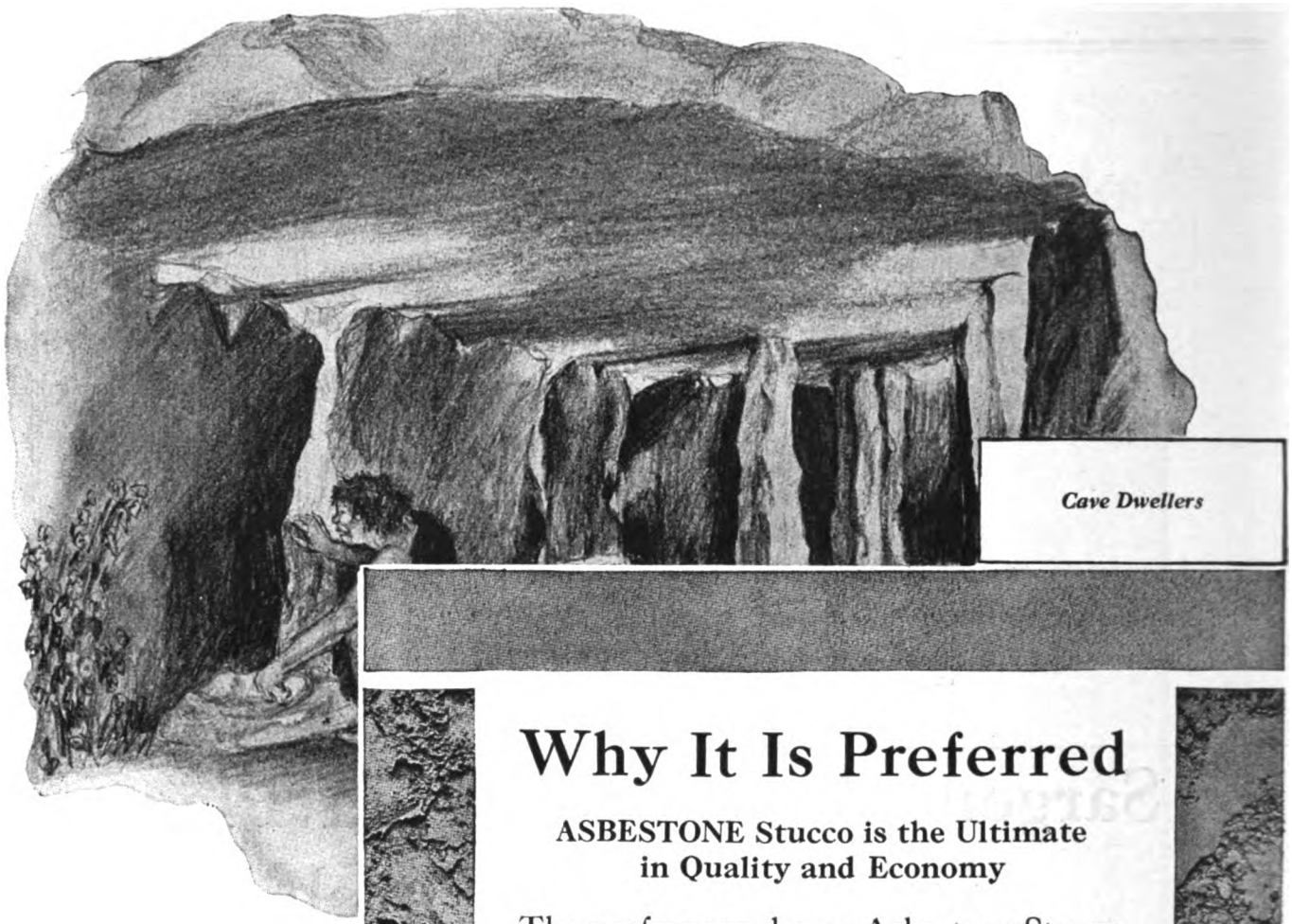
Please send me, without cost, the booklets on Sargent Planes and Squares.

Name.....

Address.....

.....

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Cave Dwellers

The Story of STUCCO

Plastering with Stucco or its primitive equivalent is the most ancient of all building handicrafts, and it is now established that not only the rough dwellings but also the ALLEES COUVERTES of prehistoric man were reinforced with "wattle and daub." There is perhaps no other distinct form of architectural treatment whose history and development can be traced back for so many thousands of years, and there is certainly no other in whose composition such enormous strides have been made.

MULLER
ASBESTONE
GUARANTEED PRODUCTS
TRADE MARK

Why It Is Preferred

ASBESTONE Stucco is the Ultimate in Quality and Economy

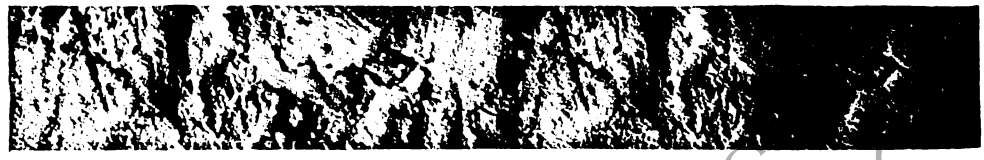
The preference shown Asbestone Stucco by architects, contractors and builders is based on points of uniform high quality, durability, elasticity and absolute dependability.

Asbestone Stucco is manufactured under the supervision of experienced chemists —the only standardized product of its kind. When applied according to our instructions, it is guaranteed not to crack, contract or expand of its own volition.

Sold by most reliable dealers

If your local dealer cannot supply you, write for samples and prices.

FRANKLYN R. MULLER, Inc.
1204 Madison Street
Waukegan • • Illinois



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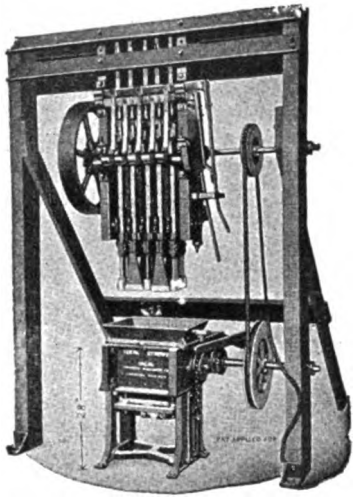


We wish you a Merry Xmas and a Happy New Year

If you want to "wish yourself" a year of success in 1926, make this resolution now:

To Keep Your Plant Going All the Time—Winter as well as Summer

Every year more and more concrete products manufacturers are falling into line. They find it is good business: they "pinch off" the orders that their less wide-awake competitors aren't on hand to book; they keep the gang together and they lay up a nice stock against early Spring demands.



VERTICAL STRIPPER

Do These Two Things, Then:

Keep busy all Winter

Make your Block or Tile on

The Ideal Vertical Stripper

This machine stands head and shoulders above others because of its extreme simplicity and speed of operation. Then, too, it offers low absorption, density, flexibility and low, convenient height for offbearing. Power stripping is furnished at no additional cost.

Write for All the Facts—
We've Got Plenty

MACHINERY REPRESENTATIVES

J. A. Abele, Box 882, 425 Whitney Trust Bldg., New Orleans, La.
R. D. Ballantyne, 1012 Healey Bldg., Atlanta, Ga.
Allen R. Boudinot, 202 E. Rusholme St., Davenport, Ia.
R. E. Brooks Co., 50 Church St., New York, N. Y.
Cannon Equipment Co., 130 Grand Ave., Rm. 903, Milwaukee, Wis.
Essick & Co., Santa Fe Ave. and 14th St., Los Angeles, Cal.
Export Office H. M. Hain, Room 1332 Knickerbocker Bldg., 152 W. 42nd St., New York.
Flack Equipment Co., Dayton, Ohio.
Flack Equipment Co., 1005 Summit St., Toledo, Ohio.
Fickelssen-Finney Equip't Co., 2020 Laclede Ave., St. Louis, Mo.
Good Roads Equipment Co., 1720 Lake St., Kalamazoo, Mich.
J. G. Hopkins, 2171 W. 111th St., Cleveland, Ohio.
Ideal Concrete Mchy. Co., 1374 Wrigley Bldg., Chicago, Ill.
Interstate Mchy. & Supply Co., 1006 Douglas St., Omaha, Nebr.
Francis H. James, 10th and Kirkham St., Oakland, Calif.
G. C. Kenney, 410 New York Life Bldg., Kansas City, Mo.
A. W. Knox, 303 Empire Life Bldg., Indianapolis, Ind.
LaLance Equipment Co., 713 Second Ave., Huntington, W. Va.
Landes & Co., 246-248 W. South Temple, Salt Lake City, Utah.
Lloyd B. Lent, West 8th St. and Southern Ry., Charlotte, N. C.
Lloyd B. Lent, 701 Medical Bldg., Asheville, N. C.
John C. Louis, 221 S. Eutaw St., Baltimore, Md.
Joe Lyons Machinery Co., 113 N. Louisiana St., Little Rock, Ark.
J. L. Latture Equipment Co., 354 Belmont St., Portland, Ore.
Minneapolis Equip't Co., 209-211 5th St., So., Minneapolis, Minn.
O'Neal Tool & Supply Co., 2504 Dix Ave., Detroit, Mich.
Ruane Machinery Co., W. Robinson & Dasher Sts., Pittsburgh, Pa.
I. E. Schilling Co., 125 N. E. Sixth St., Miami, Fla.
Star Machinery Co., 1731-1741 First Ave., South, Seattle, Wash.
Albert Strouse, Box 1107, Houston, Texas.
Waldo Bros. & Bond Co., 202 Southampton St., Boston, Mass.
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IDEAL

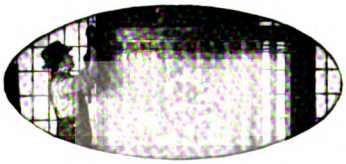
THE IDEAL CONCRETE MACHINERY CO.

5012 SPRING GROVE AVE. CINCINNATI, OHIO

TRADE MARK IDEAL REG. U.S. PAT. OFF.

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"The BEST Glass" is a high quality product because the most improved mechanical processes have made it so.

AMERICAN WINDOW GLASS CO. PITTSBURGH, PA. U.S.A.

Big friendly windows— a big factor in the sale

WHAT a thrill you give the housewife when you lead her into a bright kitchen. How her face lights up when she contemplates the sunny hours to be spent at her work. A pleasant contrast to some of the dark, stuffy places she has visited.

Light, airy, sunny rooms are the vogue today. For good reason too—modern health standards demand it! Consequently *more* windows and *better* glass are big factors in the selling and renting of homes.

"The BEST Glass" is the choice of many because it is remarkably free from defects permitting the maximum sunlight to enter each opening. Furthermore it is perfectly flat and has a brilliant lustre.

LOOK FOR THE ELLIPTICAL TRADEMARK
ON EVERY BOX OF THE GENUINE

AMERICAN WINDOW GLASS CO.

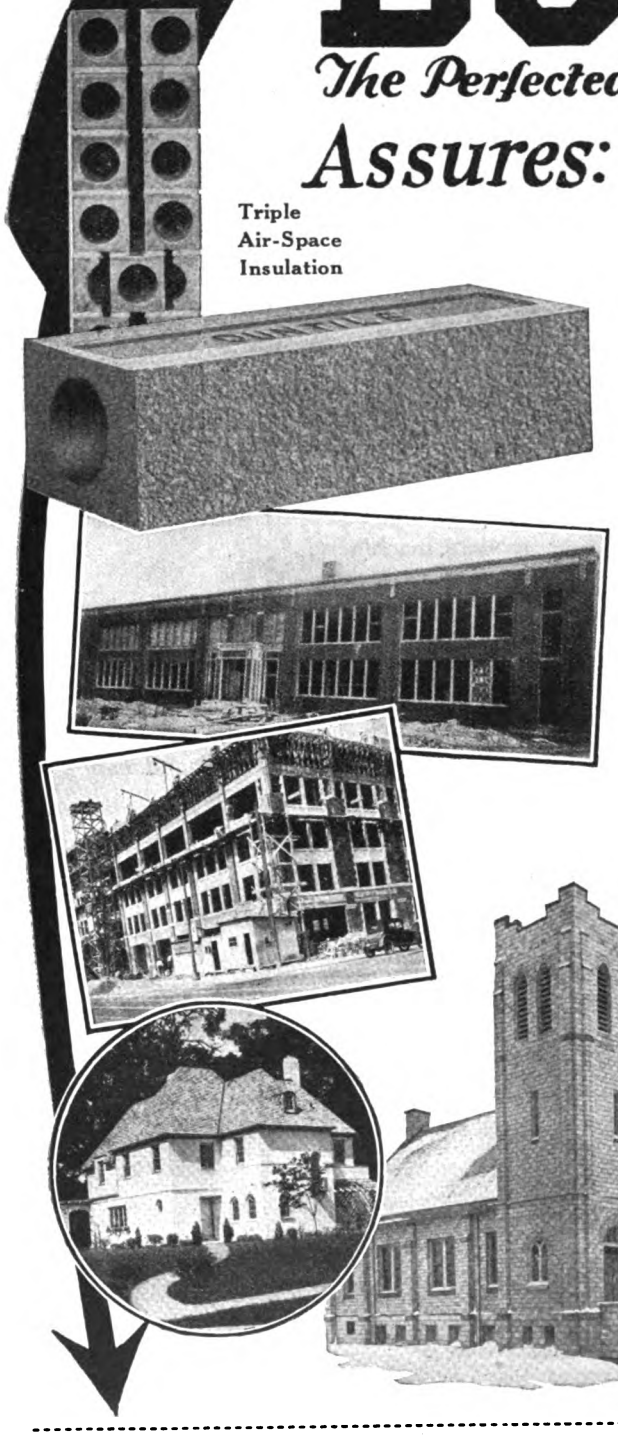
"The BEST Glass" *World's Largest Producer of Window Glass* "The BEST Glass"

GENERAL OFFICES: PITTSBURGH, PA. BRANCHES IN PRINCIPAL CITIES

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Consider the Unlimited Possibilities of DUNTILE

The Perfected All-Purpose Concrete Building Unit



Triple
Air-Space
Insulation

Assures:

1. Finest Permanent Construction at the cost of frame or—30% LESS COST THAN BRICK.
2. MAXIMUM STRENGTH with light weight.
3. MOISTUREPROOF WALLS.
4. SUPER-INSULATION against Heat and Cold.
5. FASTEST ERECTION.
6. LOW INSURANCE RATES.
7. ELIMINATES MAINTENANCE COST.

If you are in any way interested in "building better buildings cheaper" it will pay you to have at hand all the facts and figures contained in our free book, "Basic Facts."

The Public Demands DUNTILE Because

it appreciates the advantages offered by a steam-vapor cured concrete tile that has the strength to support 10,000 times its own weight. A lightweight "one-hand" unit that goes into the wall twice as fast as brick. A tile that actually unites with the mortar and becomes an integral part of the entire unified wall. A tile with a full mortar bed—quickly, easily, and economically mortared with its entire upper and lower faces amalgamated to the next units. This is Duntile—the best and cheapest unit for all purposes, for all types of buildings from foundation to roof.

Concrete Men, Builders, Contractors and Architects Use DUNTILE Because

for the cost of frame or 30% less than brick they can guarantee a building that is better looking, longer lasting, stronger and much cheaper to erect than if built of any other material. From Mexico to Hudson's Bay thousands of contracts are let annually to Duntile local manufacturers because of the money saved through use of Duntile and because of the many advantages possessed by Duntile. In fact, concrete men, contractors, builders and architects are frequently financially interested in the local Duntile plants because two profits are assured—the profit made as a Duntile manufacturer, and the money to be saved through use of Duntile for all building purposes.

300 SUCCESSFUL MEN From All Walks of Life Are Making DUNTILE BECAUSE IT IS THE QUICK and EASY WAY TO MANUFACTURING INDEPENDENCE

Let this be understood: more than 300 Duntile manufacturers are already firmly established and point the way to your success. In the free book, "Basic Facts," you are given the money-making history of many Duntile manufacturers who have become successful in a big way—and these men all have their big futures still ahead of them. Send the coupon Now! Get all details of cost—profit—security—and an assured future.

SEND NOW FOR "BASIC FACTS"

W.E.DUNN MFG. Co.

700 WEST 23rd STREET

HOLLAND, MICHIGAN

12-25

W. E. DUNN MFG. CO.,
700 West 23rd Street,
Holland, Michigan.

Show me

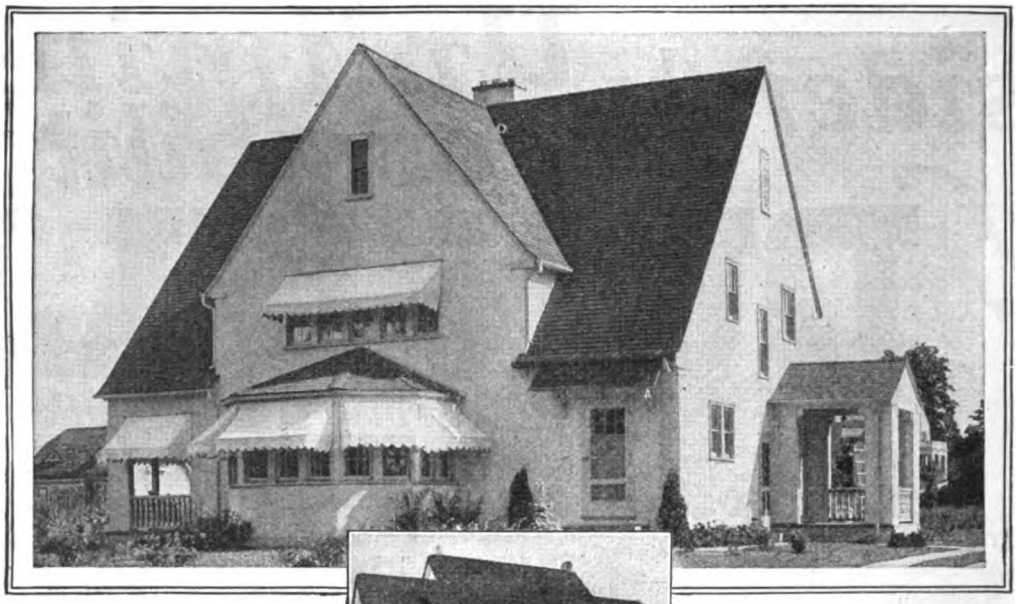
through your book, "BASIC FACTS," the facts and figures that prove how average ability and some capital win manufacturing independence for those supplying DUNTILE in each community. Also show me how I can manufacture DUNTILE in a plant of my own at a profit of 30% to 60%.

Name .....

St. Address .....

City ..... *State* .....

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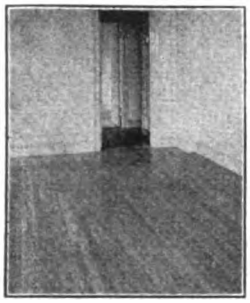
Residence of E. R. Gillet, Ottawa Hills, Toledo, Ohio, in which 3/8 x 1½ clear white Bruce Oak Flooring was used in principal rooms, and select grade red oak upstairs.

Geo. M. Stader, Toledo, Ohio, Contractor.

The value of these homes in Toledo, Ohio, whether for sale or rental, is increased by Bruce Oak Flooring. 3/8 x 1½, in clear and select grades, was used throughout.

Trowbridge & Ackerman, New York, Architects.

Select the Best OAK Flooring



Regardless of whether you are erecting a modest cottage or a more pretentious home, there is Bruce Oak Flooring that will come within the cost estimated. The quality will be the highest, regardless of price, as there is only one standard of Bruce Oak Flooring.

By selecting different grades for different rooms—using quartered and plain sawn, and perhaps design flooring or border treatment in one or more principal rooms, the entire home may be floored in an attractive and distinctive way, at moderate cost.



Home of Clarence Fleischman. Chas. Kaser & Son, Contractors.



Home of Wm. E. Wright. Geo. M. Stader, Contractor.



Residence of Harold Kells. P. M. Bettinger, Contractor.



Residence of Henry Lamont. P. M. Bettinger, Contractor.

The wise builder specifies *Bruce* Oak Flooring, because it is made from the most carefully seasoned lumber, in mills built expressly for the manufacture of oak flooring, equipped with the most modern machinery.

The manufacture of Bruce Oak Flooring is uniform. A minimum of scraping and sanding is required to obtain a well-finished floor. There should be no cracks to catch dust and dirt, therefore a Bruce oak floor is sanitary and easy to keep clean.

Bruce Oak Flooring adds much to the selling or rental value of the home or building in which it is used. Let our technical department help you in selecting grades and finishes suitable for different rooms.

THE MARK OF QUALITY

BRUCE

Bruce oak flooring, and Bruce "Cedo'line", aromatic Tennessee cedar lining for clothes closets, are sold nationally through lumber dealers everywhere.



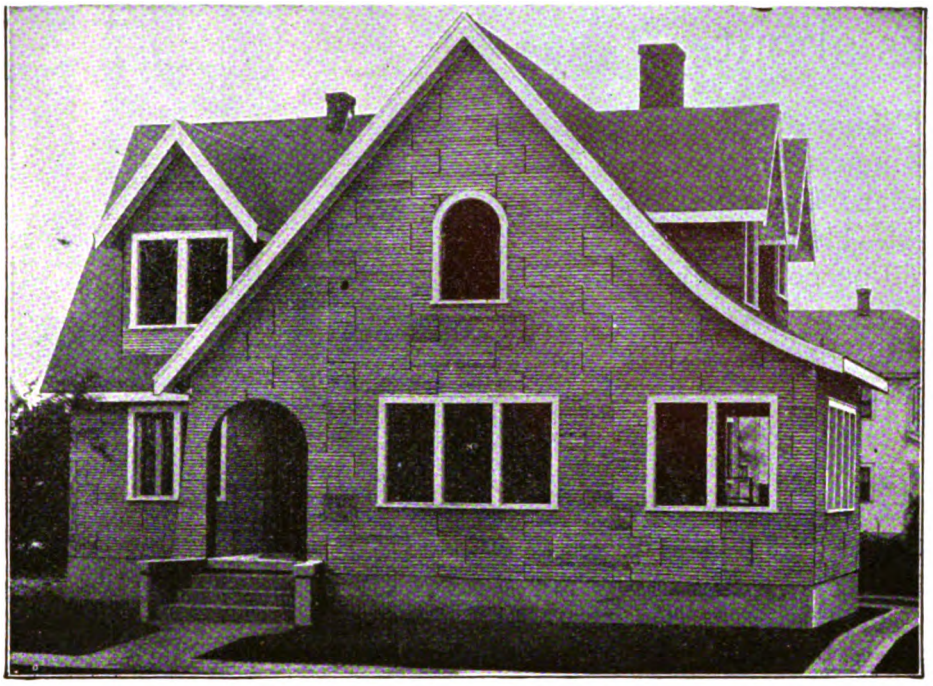
THIS book tells you about the convenience, economy and attractiveness of Bruce oak flooring. The ease with which it may be kept clean and bright; the enduring qualities; the increased value added to any home; appropriate use of various grades and widths, with practical suggestions for different rooms; distinctive effects which may be obtained from color finishes. 24 pages of interesting facts, fully illustrated. Write today for your free copy.

E. L. BRUCE COMPANY

MEMPHIS TENNESSEE

LARGEST MAKERS OF OAK FLOORING IN THE WORLD

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Home designed and constructed by Home Building Development Company, Dayton, Ohio. Stucco contractor: National Stucco & Flooring Company. KEYLOCK used throughout.

KEYLOCK—The base that makes Stucco *Stick!*

KEYLOCK—the stucco base with the patented double dove-tailed lock, holds stucco permanently. It replaces sheathing, furring strips, building paper and laths—is superior to them in low cost of application, insulating and sound deadening qualities.

Made upon a heavy fibre paper base with the chemically-treated wood strips embedded in asphalt mastic, it is water and warp-proof. Applied from the roll easy as hanging a curtain. Joints are staggered automatically over the studding. For best results use KEYLOCK with: FLINT ROCK ALL MINERAL STUCCO—a durable oxychloride cement of unusual beauty and with: ARCHITEX FINISH—a specially prepared finish coat furnished in many harmoniously rich shades of color. *Mixed car shipments of these three items are a real economy to the purchaser.*

Flint Rock Products are sold by dealers throughout the United States. If your dealer does not represent us, send us his name.

THE FLINT ROCK STUCCO COMPANY
Fourth Street, Arcade Building
DAYTON :-: OHIO



FOR THE BUILDER WHO CARES

KEYLOCK
—the unit Stucco base—is furnished complete in rolls of 100 sq. ft.—64 inches wide.

MAIL THIS COUPON TODAY

THE FLINT ROCK STUCCO COMPANY
Dayton, Ohio
Send complete information regarding
- ☐ KEYLOCK INTERLOCKING BASE
- ☐ ARCHITEX FINISH IN COLORS
- ☐ FLINT-ROCK-ALL-MINERAL STUCCO

Name .....
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☐ Dealer ☐ Architect ☐ Home Builder

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Wonder what a dog thinks about

A dog named "Bingo of Flathead" thinks about Pondosa Pine, which grows in the Inland Empire of the Great Northwest. He thinks about what a fine, all-purpose building material it is. His story is told in a very interesting booklet, which we will mail you free on request. You may know that every trade-marked stick of Pondosa Pine is rigidly *graded*, thoroughly *seasoned* and carefully *milled*, but you ought to hear "Bingo" tell about it. Write for the booklet. Address Dept. 23, Western Pine Manufacturers' Association of Portland, Oregon.

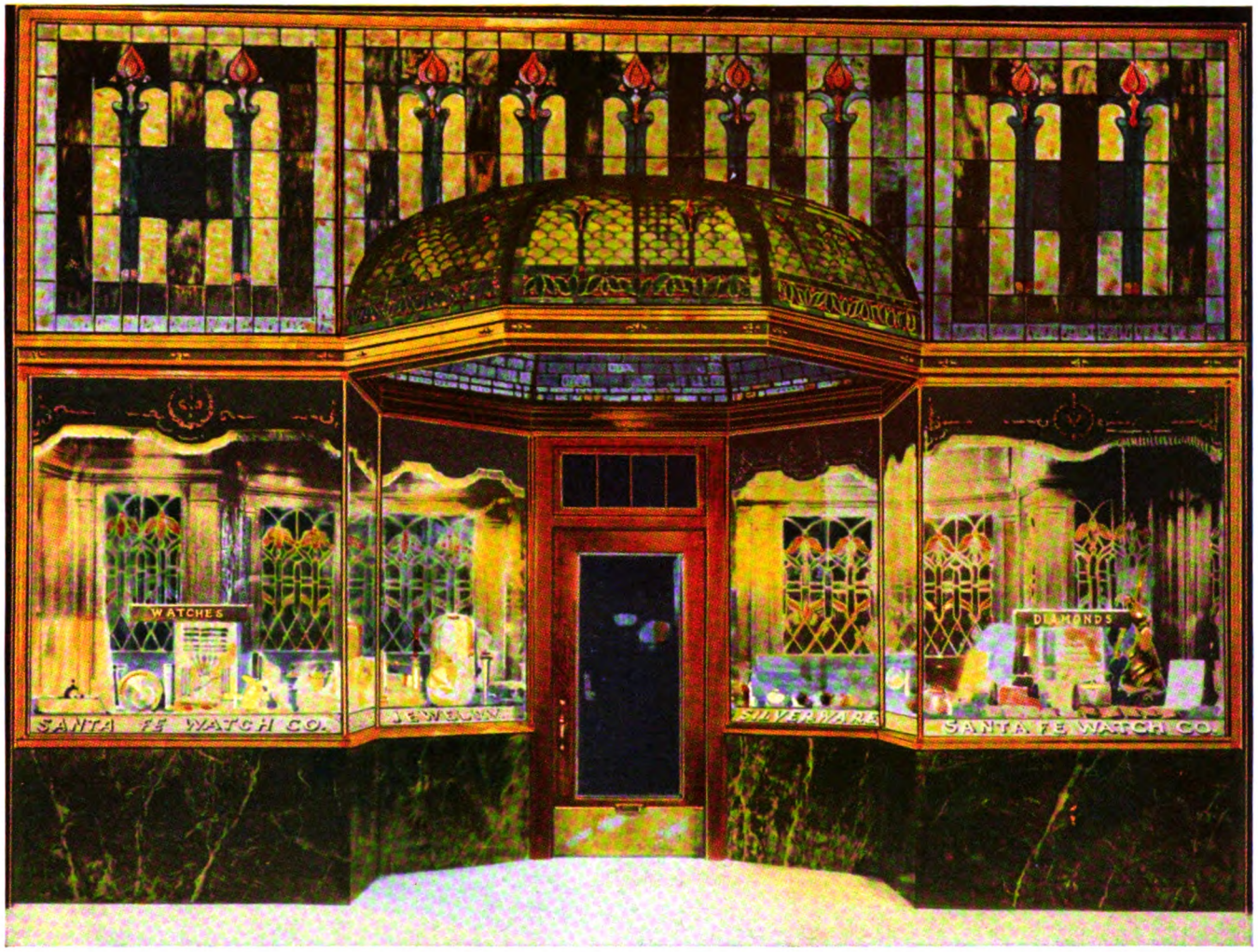
Pondosa Pine

The Pick o'the Pines

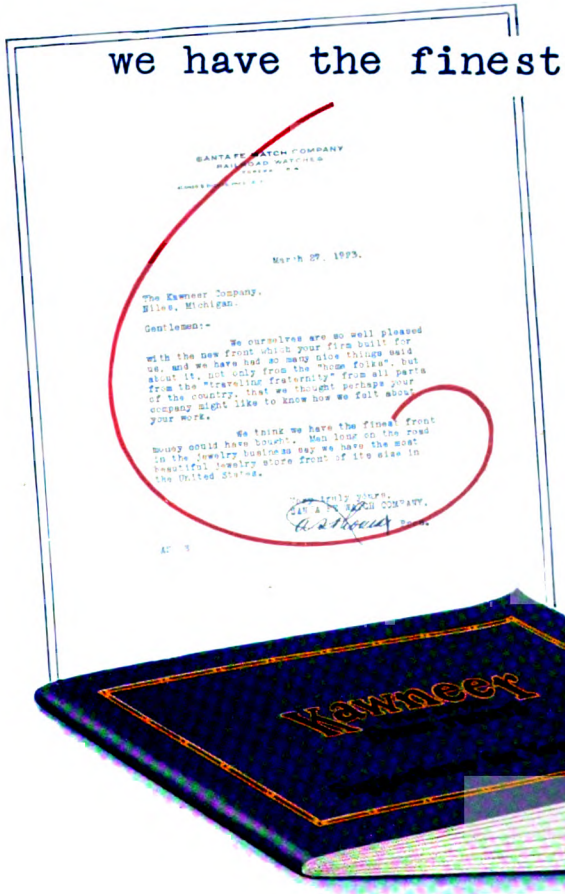


Write for this booklet.

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we have the finest front money could have bought.


SANTA FE WATCH COMPANY
RAILROAD WATCHES

March 27, 1923.

The Kawneer Company,
Niles, Michigan.

Gentlemen:-

We ourselves are so well pleased with the new front which your firm built for us, and we have had so many nice things said about it, not only from the "home folks", but from the "traveling fraternity" from all parts of the country, that we thought perhaps your company might like to know how we felt about your work.

We think we have the finest front money could have bought. Men look on the road in the jewelry business as say we have the most beautiful jewelry store front of its size in the United States.

Very truly yours,
SANTA FE WATCH COMPANY,

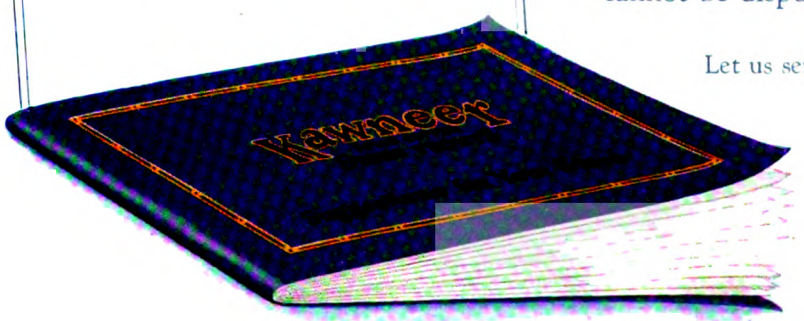
If you installed
a

Kawneer
SOLID COPPER
STORE FRONT

for a merchant and he returned you a compliment similar to the one above, would it not be of value to you? KAWNEER construction is so easily fabricated and installed that contractors find it easy to satisfy their clients.

The fact that one satisfied customer will develop others cannot be disputed.

Let us send you Contractors' Design Book.



The
KAWNEE
Company
3125 N. Front St.
Nilee, Mich.

Send me free "Contra
tors' Design Book".

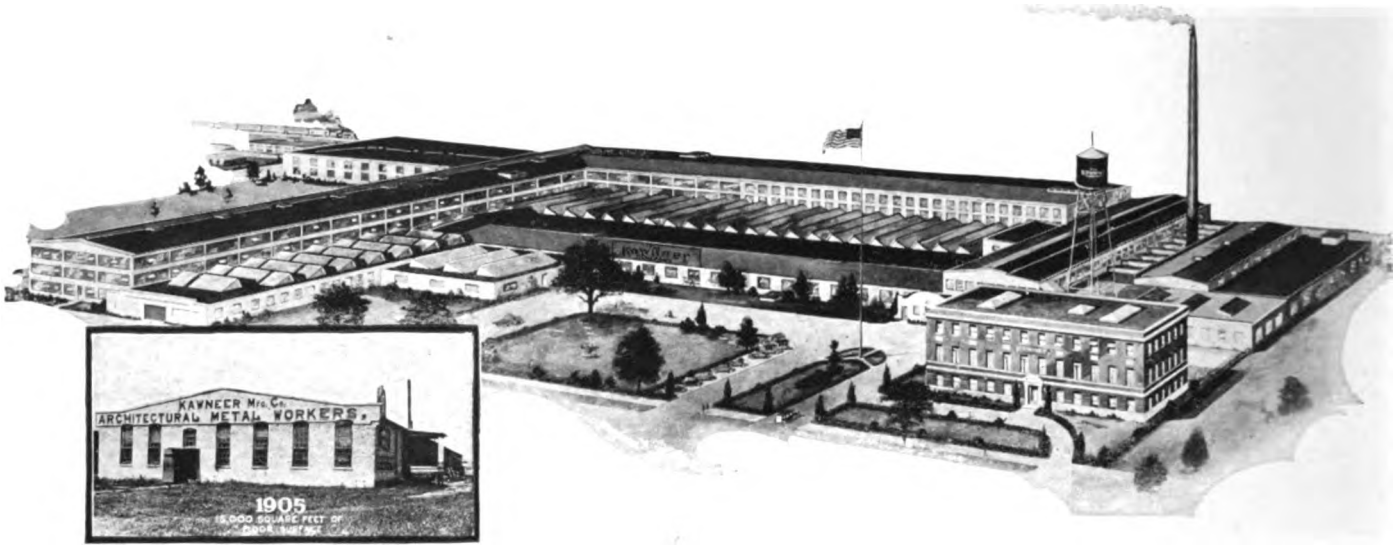
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ADDRESS.....

CITY..... STATE.....

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We Are Proud Of It!



in 1905

Twenty years ago, in a small tin-smith's shop in Kansas City, Missouri, the construction for the first hollow metal copper store front was produced.

The merits of this construction were soon recognized from one end of the country to the other. The demand became so great that the inventor, together with his associates, were compelled to increase their production.

The building shown on the left, the first KAWNEER factory, was erected in Niles, Michigan, occupying a floor area of 15,000 square feet.

TODAY

Today around this nucleus there stands an institution with a floor area of 284,926 square feet, including a three-story fireproof office building.

This enormous growth is accredited to the fact that the policy behind the first installation has been carried out in every product manufactured by The KAWNEER Company since that time—THE PRODUCT MUST GIVE SATISFACTORY SERVICE TO THE USER.

See KAWNEER Store Front illustrated on preceding page



Over a quarter of a million in twenty years

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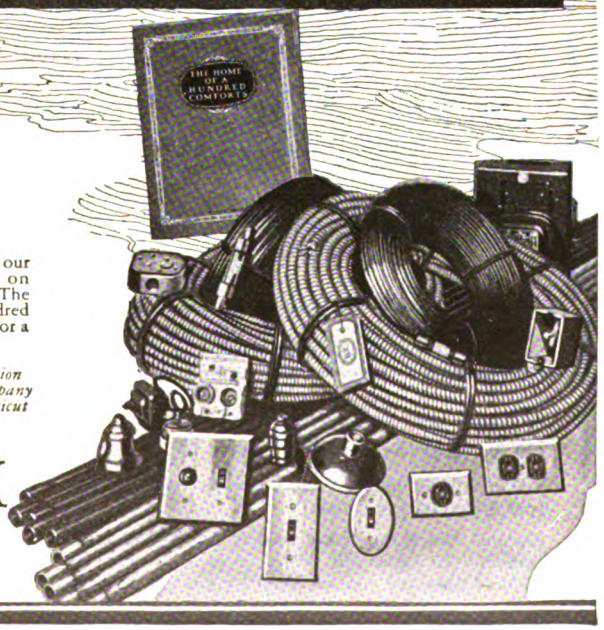




Hidden Wiring *should be* Quality Wiring

HANG up a "G-E Wiring System" sign on the front of the house, and you have added to its selling value. Today, every man knows that the wiring materials built into the walls of a house are important. He knows that if they are made by General Electric, they are of highest quality, down to the very last detail. And he knows, too, that a complete G-E Wiring System gives him the utmost of service and convenience out of electricity.

General Electric is a good name to tie to. Its prestige is always an indication that you have been particular in the quality of materials you use in construction. And the nationwide advertising of the G-E Wiring System makes people quick to recognize its value.



Have you received our helpful booklet on complete wiring, "The Home of a Hundred Comforts"? Send for a copy.

Section BA-11
Merchandise Division
General Electric Company
Bridgeport, Connecticut

GE WIRING SYSTEM
—for lifetime service

GENERAL ELECTRIC

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Short Cuts for Builders!

A New Handbook! Built for Practical Builders! Designed to Save Time and Money! Best Dollar Buy in America!

Two Hundred and Fifty Short Cuts, every one practical; every one tested; every one unusual; every one helpful on the daily job; any one worth ten times the price of the book when applied to your work.

Here, gathered in one volume, profusely illustrated, are the hard won experiences of hundreds of practical men who have used these kinks in their own work and proved them time and money savers.

Here are new and quicker ways of doing old jobs that come up in your everyday experiences. Here is help — real help — not theory. Every idea in the book is practical; has been used.

Why should you take an hour on a piece of work when somebody else has found a way to do it in 25 minutes and that way is shown in this book? Not once but many, many times during the year you will be able to utilize the suggestions this book offers. If you only find *one* kink that you can apply to your work the price of the book will be returned to you over and over.

We don't want you to pay a cent for Short Cuts for Builders unless you are thoroughly satisfied that it is worth *more* than the price charged.

Therefore we will send it to you on approval. Keep it 5 days. Examine it thoroughly. If you are not wholly satisfied, return it within 5 days and you money will be refunded at once.

It cost us $5,000 just to compile this practical work. Out of a mass of stuff we had to pick and choose the best and put it into shape for your use. Therefor we have every confidence in it and in its helpfulness to you. Hence our faith in the book and our willingness to refund your money at once if you wish it.

Fill in and mail the coupon *today*. Just pin a dollar bill to it. We'll take the chance. But do it TODAY!

Partial List of Contents

Plans that can't be lost. A convenient blueprint box. A handy bench. Short cut in veneering. Making odd size doors. Emergency drill press fastening. Steep plank walk. A fixed hod rest. A convenient putlog support. Getting power for a concrete mixer. Material elevator for apartment house. Home-made brick hod. Ladder scaffold bracket. Steel worker's scaffold. Novel stone cart. Simple mason's scaffold. Storing glass. Piling cut stone. Protecting unfinished brick wall. Shed for storing face brick. Contractor's sign. A portable sign board. Convenient lime storage pit. Protecting brick from stucco stains. To keep sand from spreading. A way to pile tile roofing. Bracing walls in a frame building. Aid for holding door frames. To lay hard wood flooring using short pieces only. Fixing door frames firmly at the base. Framing for a telephone opening. Framing for a false beam ceiling. Nailing a tin siding corner. Framing for an ornamental statuary niche. Roughing in for a tile floor. Tools for making raked joints in brick work. Soldier course corners. Damp proofing with hollow tile. Ornamental joints in rough masonry walls. Shoring support for stone sill. Protect your cut stone. Formwork for a concrete cistern head. Reinforced concrete flower box support. Measuring cement for small mixer. Bonding a bumping post to a concrete floor. Formwork for a circular concrete terrace. Scaffolding for stucco work. Plastering for a "no trim" window. Fr ming for a coved ceiling. A slate roofer's stake. An aid in shingling valleys. A simple way of hanging sheet metal gutters. A roofer's scaffold. Soil pipe in narrow wall. Covering hot water pipes. Sizes of water supply pipes. Piping for future needs. Placing radiators. Registers in narrow wall. Holding bell wires together. Placing the meter box conveniently. A paint brush holder. A painter's scaffold. Patch for broken plate glass window. An underpinning well. Rollers for house moving.

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Building Age and National Builder,
239 W. 39th Street, New York, N. Y.

You may send me "250 Short Cuts for Builders" on your 5-day approval plan.

Enclosed find $1.00. If the book is satisfactory I will keep it. If not I will return it in good condition within 5 days and you will return my money at once.

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OTIS

FOR NEARLY THREE QUARTERS OF A CENTURY

THE WORLD'S WORD FOR ELEVATOR SAFETY

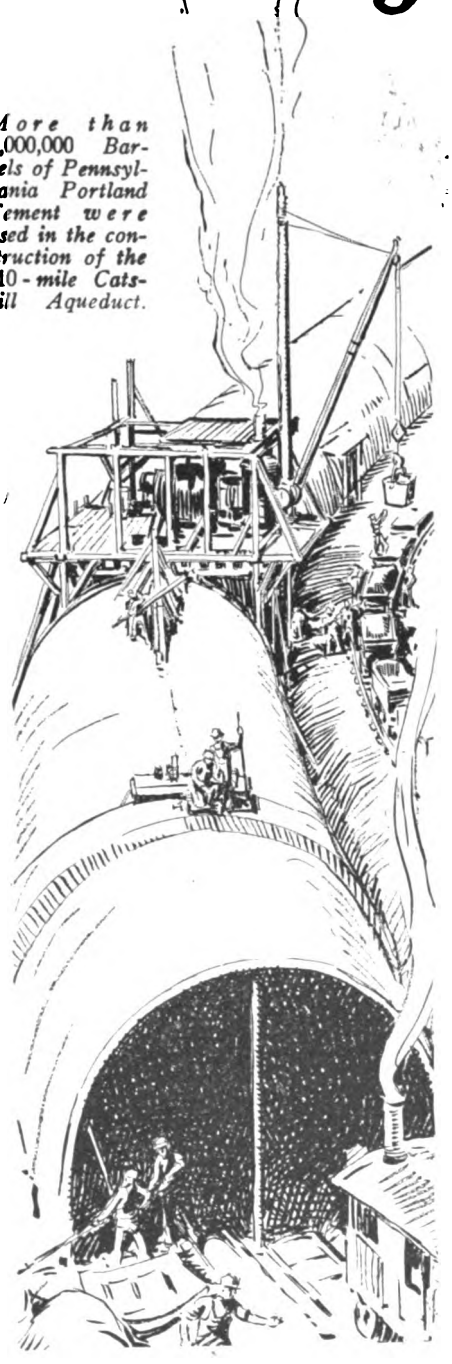
OTIS ELEVATOR COMPANY

OFFICES IN ALL PRINCIPAL CITIES OF THE WORLD



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The safety of *five million*



More than 1,000,000 Barrels of Pennsylvania Portland Cement were used in the construction of the 110-mile Catskill Aqueduct.

WHEN Pennsylvania Portland Cement was selected for the gigantic Catskill Aqueduct which supplies New York City with water, it carried a responsibility for the lives and welfare of millions of people. Every barrel of cement must be absolutely dependable. Nothing must be left to chance.

The use of Pennsylvania Portland Cement is a guarantee of reliability. Not only does it exceed U. S. Government standards but in the entire process of manufacture, from the selection of the finest cement rock to the final product, every step must insure quality. You may be sure that no better cement can be made by any process or by any method.

The Pre-test

Thirty days or more before any Pennsylvania Portland Cement is ground for shipment, we thoroughly test the fused clinker from which cement is made. A miniature grinding mill installed in our laboratories duplicates actual process of manufacture. This makes it possible to know that the quality of Pennsylvania Portland Cement is certain *every time*. Every barrel exceeds the rigid U. S. Government standard requirements.

This reputation for quality has been the determining factor for the selection of Pennsylvania Portland Cement by architects and engineers in such important work as the New York and Brooklyn subways, the Hill to Hill bridge at Bethlehem, Pa., the Polo Grounds, the Bear Mountain Bridge, the American News Co. Building and the Approaches to the Vehicular Tunnels.

PENNSYLVANIA CEMENT COMPANY

Offices:

NEW YORK **PHILADELPHIA**
BOSTON **BUFFALO**

Plants:
Bath, Pennsylvania **Portland Point, N. Y.**

PENNSYLVANIA
PORTLAND CEMENT

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STABILIZED BY KOLL LOCK-JOINT COLUMNS



All the world loves a beautiful entrance

One of the most charming things American architecture has produced is the modern Colonial entrance.

No other country or period has created a type that excels its artistic proportion and distinctive beauty. It adds the delightful flavor of Colonial days to many of America's finest homes.

There was a time when designing and building Colonial entrances was a haphazard, makeshift job. Today, however, it is an art, a specialized craft, which makes all the difference in the world in both the entrance itself and the appearance of the building.

Hartmann-Sanders have naturally taken a leading part in this modern development. Their 26 years' experience as America's premier builders of fine wood columns has provided not only the facilities and experience, but also the expert craftsmanship which this fine work demands. For distinctive designs, perfection of detail, and adherence to highest architectural standards, their entrances are not surpassed.

Hartmann-Sanders entrances are designed to the owner's, the architect's, the contractor's or our specifications. Built complete, ready to erect. KOLL LOCK-JOINT COLUMNS add beauty and guarantee joints that *will not come apart.*

Write for new Catalog No. D-51 containing many entrance suggestions. Or for Catalog No. D-34 featuring pergolas, rose arbors, lattice fences, lawn umbrellas, sundials, artificial stone bird baths, fountains, flower vases, etc. Address Hartmann-Sanders Co., 2170 Elston Avenue, Chicago, Illinois. Eastern Office and Showroom: 6 East 39th Street, New York City.

HARTMANN-SANDERS

Colonial KOLL LOCK-JOINT COLUMN *Entrances*

THEY CANNOT COME APART

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Keep Right On Building This Winter

Bears and ground hogs still hibernate. But engineers, architects, contractors and building owners don't let winter drive them to cover.

They know that "time is money"— that winter is just as good as any other time to build; so they keep on building in cold weather.

The building industry, as well as the public, recognizes that this practice is not only practical but usually profitable for all concerned.

Winter construction means that builders can continue their work without interruption through twelve months. The builder's crew, which has been trained to maximum efficiency, can be kept intact and steadily employed with profit to everyone.

Winter construction by providing quicker occupancy, brings to the owner an earlier return on his investment.

During the winter there are few delays in getting material. Sand and stone are usually nearby; cement is obtainable on short notice practically anywhere. And these materials come to you ready for use—you make your building right on the job.

In winter, as in summer, concrete is the last word in speed of construction—the champion time saver.

If you have not yet experienced the advantages of winter building, plan now to do so.

And remember, where "time is money" use concrete.

* * *

The few fundamental principles of cold weather construction are simple and easy to apply. If you are not familiar with them, ask our nearest District Office for literature on winter building. There is no obligation.

PORTLAND CEMENT ASSOCIATION

A National Organization to Improve and Extend the Uses of Concrete

Atlanta	Columbus	Indianapolis	Minneapolis	Parkersburg	San Francisco
Birmingham	Dallas	Jacksonville	Nashville	Philadelphia	Seattle
Boston	Denver	Kansas City	New Orleans	Pittsburgh	St. Louis
Charlotte, N.C.	Des Moines	Los Angeles	New York	Portland, Oreg.	Vancouver, B.C.
Chicago	Detroit	Milwaukee	Oklahoma City	Salt Lake City	Washington, D.C.

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The MURPHY IN-A-DOR-BED

NEW BAKER HOTEL

DALLAS, TEXAS

Opened October 9th

Preston J. Bradshaw, Architect

THE installation of over a hundred Murphy full size and twin beds in the fine, new, 700-room Baker Hotel at Dallas, Texas, is just another endorsement of Murphy quality and value. Their comfort and convenience are as highly appreciated by the guests as the economy in floor space which Murphy In-A-Dor Beds make possible to the owner.

Hotels and apartments designed and built around the Murphy idea are conceded by the country's leading architects, builders and owners, to be the highest development of the concealed bed principle. Added sleeping accommodations with greater income from rentals of rooms primarily designed for day time uses are accomplished through Murphy In-A-Dor Bed Installations.

Let Our Technical Service Department Help You — No Obligation

An experienced technical department is maintained by us for the benefit of architects, builders and owners at each Murphy office. They are always ready with suggestions that will help you conserve space. Let them show how to make revenue-increasing Murphy In-A-Dor Bed installations.

THE MURPHY DOOR BED COMPANY

ADDRESS NEAREST OFFICE

Chicago, Ill.....22 W. Monroe St.
St. Louis, Mo....315 N. Tenth St.
Detroit, Mich., 7th Fl. Kresge Bldg.
Birmingham, Ala...513 N. 21st St.
Cleveland, O..1140-42 Hanna Bldg.
Kansas City, Mo..1114 Grand Ave.
Dallas, Texas...1919 Pacific Ave.
El Paso, Texas...Neff-Stiles Bldg.
Houston, Texas.....2301 Main St.
New Orleans ,La...319 Dryades St.

New York City....19 W. 44th St.
Atlanta, Ga.....33 Luckie St.
Seattle, Wash..Terminal Sales Bldg.
San Francisco, Calif..Crocker Bldg.
Los Angeles, Calif..1807 S.Main St.
Denver, Colo.....1534 Blake St.
Ottawa, Can.....205 O'Connor St.
Montreal, Can.....153 Peel St.
St. Petersburg, Fla., 225 2nd Ave., S.
Miami, Fla. ..234 Columbia Bldg.



A living room, sample room or parlor by day with no indication of the concealed sleeping accommodations.



A comfortable bed room at night by swinging the Murphy In-A-Dor Bed out from behind an ordinary door.



Mr. T. B. Baker, President and Manager of the Baker Hotel says the Murphy In-A-Dor Bed is the best for the money in America. This statement, to the thousands of hotel men who know his ability, is considerable of a recommendation for the Murphy.

Murphy In-A-Dor Beds have been installed in thousands of America's finest hotel and apartment hotels among which are The Pennsylvania Hotel Apartments, The Whittier, The McAlpin, The Windermere East, Hotels Statler and The Morrison Hotel.

There is Only One In-A-Dor Bed "THE MURPHY"

Digitized by Google

"I have it!"



Fill In, Clip and Mail Now

BUILDING AGE AND NATIONAL BUILDER
239 WEST 39th STREET NEW YORK, N. Y.

Gentlemen: Please send me without charge, unless otherwise noted, the Manufacturers' Literature, numbers of which I have enumerated below:

No..... No.....
No..... No.....
No..... No.....
No..... No.....
No..... No.....

Name .....
Address .....
Occupation .....

Build a Worth While Library —No Charge!

Take example from the gentlemen directly to your left.

He is a wise builder who has learned a little secret of how to keep posted to the minute about every development in building materials, machinery and equipment.

He has, through the Service Department of Building Age and National Builder, accumulated a library of Manufacturers' Literature.

This library of hundreds of catalogs, booklets, etc., has cost him nothing beyond the price of a few postage stamps.

Yet it has put within his immediate reach volumes of information about what is new, improved and better in everything that enters into building construction.

He keeps thoroughly up-to-date. He is never at a loss to hand to a prospective buyer complete data completely illustrated. When some detail of a job is being figured he has the specific information necessary at his finger tips. He is always able to say, "I have it!"

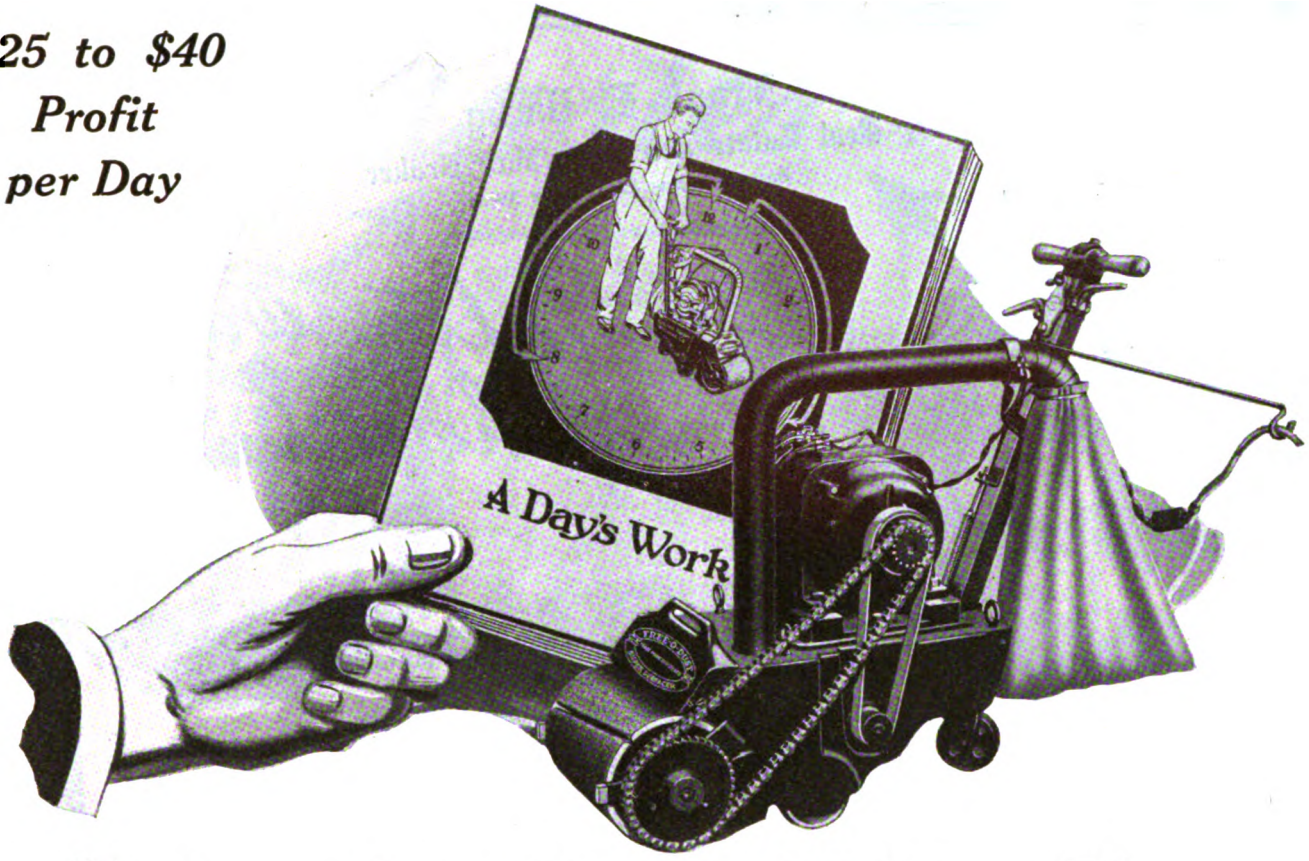
You can have no more valuable accessory in your place of business than complete files of Manufacturers' Literature. We shall be glad to provide these for you without charge or obligation.

Turn to pages 150, 152, 154, 156, 158, 160, 162, 164, 166, 168 and 170 of this issue; use the coupon and fill in the numbers of pieces you want. They will be forwarded at once.

Building Age
and
National Builder
239 W. 39th Street New York, N. Y.

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$25 to $40 Profit per Day



A Complete Money-Making Plan for the Contractor

Mail the Coupon for Your FREE Copy

Whether you are interested in an independent business, or as a contractor desiring a floor surfacing machine for your own work, you cannot afford to overlook the FREE-O-DUST Super Surfacer. Why? Because this machine enables you to do better work quicker, and is the culmination of 20 years' experience building Sanding Machines.

Many contractors that have purchased this Super Surfacer to handle their own jobs have found it so profitable that they have established a big money-making business. There is a tremendous demand every month of the year, with porfits of $25.00 to $40.00 a day.

Every particle of dust is collected on both forward and backward movements. Vibration is eliminated. Operates right up to the base board. Pressure of drum is automatic and can be locked to any pressure desired. These exclusive features make for 100% efficiency as well as pleasant and extremely profitable work.

Do not believe our statements without proof. Send for our complete money-making plan in the form of a booklet entitled "A Day's Work." It tells about our unconditional 5 days' Free Trial, and the absolute Guarantee, also some mighty interesting and valuable information about floor surfacing. Don't wait! There is no obligation. It will open the road to greater profits. Mail the coupon now.



The Electric Rotary Machine

This versatile machine is particularly adaptable for sanding floors where an exceptionally high finish is necessary. Also for polishing marble, Terrazzo, etc., waxing, polishing and scrubbing. A different attachment is used for each job. One of the many exclusive features is the flexible shaft attachment for covebase, wainscoting, sidewalls, stairs, etc.

Coupon

ELECTRIC ROTARY MACHINE CO. BA-12-25
3833 W. Lake St., Chicago, U. S. A.

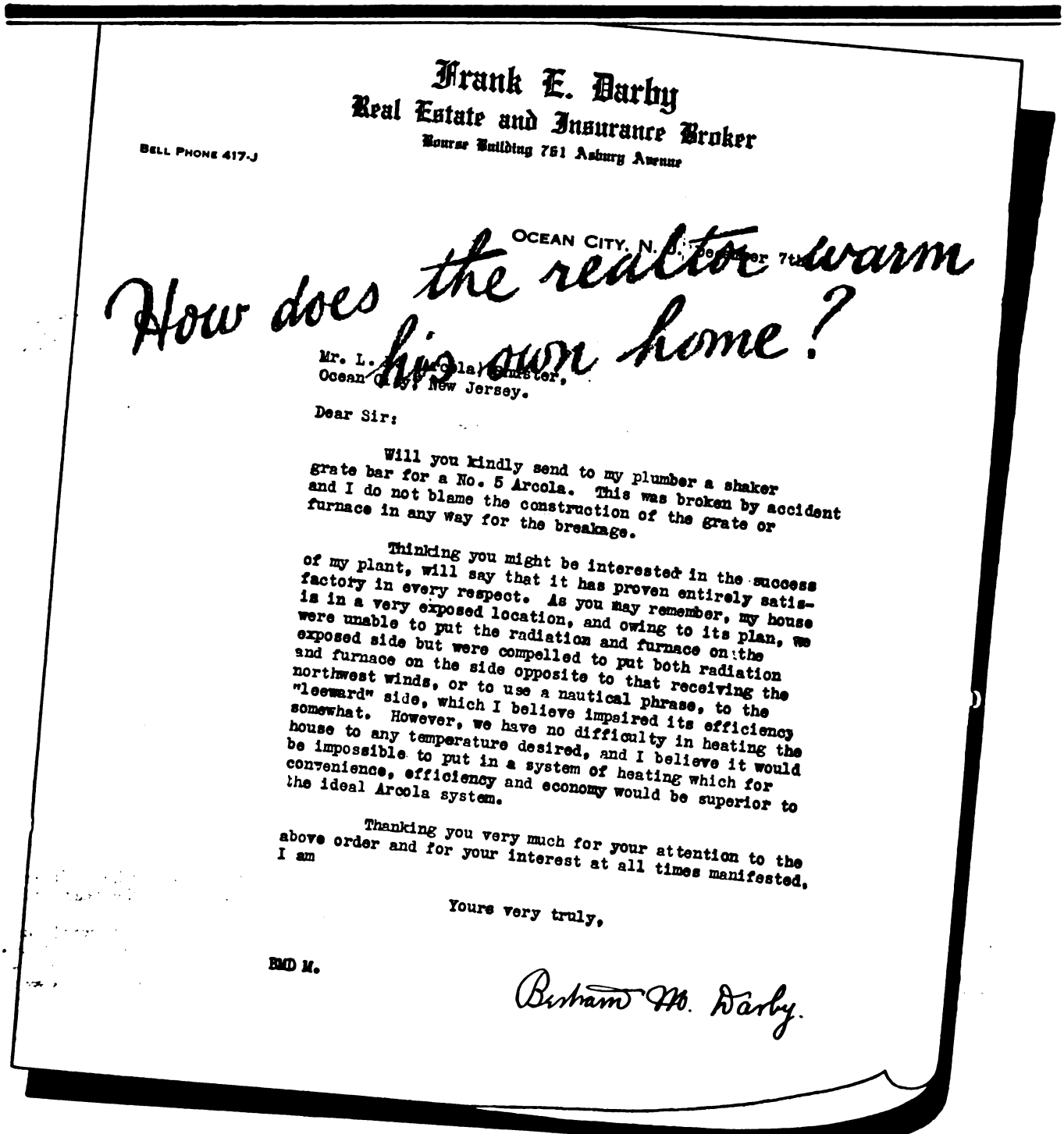
- ☐ Please send me booklet "A Day's Work," giving full information about the FREE-O-DUST Super Surfacer.
- ☐ Please send me General Booklet giving full information about the Electric Rotary Machine.
- ☐ As a contractor, I am interested in making more money.
- ☐ I am interested in going into the floor sanding business.

Name .....

Address .....

ELECTRIC ROTARY MACHINE COMPANY
3824 W. Lake St., Chicago, Illinois
Branch Office ~~~ New York City

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Frank E. Darby
Real Estate and Insurance Broker
Bourse Building 751 Asbury Avenue

BELL PHONE 417-J

OCEAN CITY, N. J., December 7th

How does the realtor warm his own home?

Mr. L. [illegible] Arcola Booster,
Ocean City, New Jersey.

Dear Sir:

Will you kindly send to my plumber a shaker grate bar for a No. 5 Arcola. This was broken by accident and I do not blame the construction of the grate or furnace in any way for the breakage.

Thinking you might be interested in the success of my plant, will say that it has proven entirely satisfactory in every respect. As you may remember, my house is in a very exposed location, and owing to its plan, we were unable to put the radiation and furnace on the exposed side but were compelled to put both radiation and furnace on the side opposite to that receiving the northwest winds, or to use a nautical phrase, to the "leeward" side, which I believe impaired its efficiency somewhat. However, we have no difficulty in heating the house to any temperature desired, and I believe it would be impossible to put in a system of heating which for convenience, efficiency and economy would be superior to the ideal Arcola system.

Thanking you very much for your attention to the above order and for your interest at all times manifested, I am

Yours very truly,

BMD M.

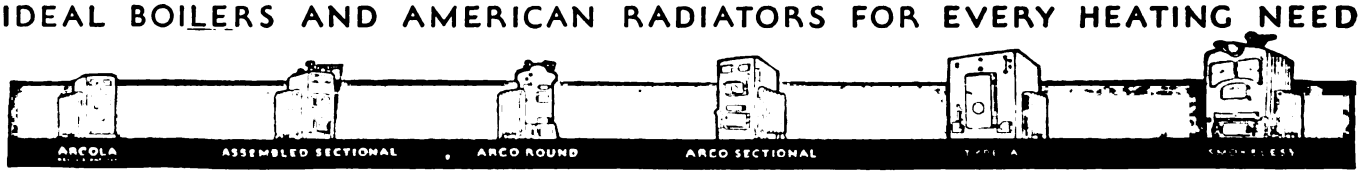
Bertram M. Darby.

We have evidence of hundreds of prominent realtors, like Mr. Darby—also many builders—in all parts of the country, who not only install IDEAL Boilers and American Radiators in homes to add to their salability, but when it comes to equipping their own homes, practice on themselves the same sound policy they preach to others.

AMERICAN RADIATOR COMPANY

Dept. T-284, 1807 Elmwood Ave., Buffalo, New York *Sales Offices in all principal cities*

IDEAL BOILERS AND AMERICAN RADIATORS FOR EVERY HEATING NEED



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REGISTERED U. S. PATENT OFFICE

Plasterite

PATENTS PENDING

100 Times Stronger than Hair



40% to 60% Cheaper

The Sensation of the Building Field!

Super Satisfaction in Plaster Mixing

A scientific blend of various types of particularly adapted fibres—for plastering and stucco work.

PLASTERITE represents the greatest advance in plaster making since the beginning of time. It makes a smoother job in less time, without the difficulty of soaking and beating—without dust and dirt. **IT'S CLEAN.**

OUR CRINKLING PROCESS makes lumpy mortar an unknown occurrence with **PLASTERITE. THOROUGH DISTRIBUTION** throughout the mortar is secured because **PLASTERITE WON'T MAT.**

WALL CRACKING IS REDUCED TO A MINIMUM owing to its astounding strength, yet it has that pliability and softness of texture, that forces it to instantly adhere permanently to the wall.

HOT LIME CAN'T HARM PLASTERITE. It is therefore not necessary to wait for boiling lime to cool.

We have **THOUSANDS OF SATISFIED USERS,** some probably in your vicinity, who will be glad to tell you of their experience. They recommend it highly. "Charles Silver, working on the Memorial Hall, tells us he slakes 16 barrels of lime per day with **PLASTERITE,** because it distributes so easily."

YOU CAN'T AFFORD TO PASS UP PLASTERITE. It will build you a reputation for high class work of lasting quality—*at a fraction of your former cost. Make us prove it.*

Just detach the coupon and mail it to us for sample, booklet and further information—or ask your dealer.



½-bbl. packed full

THE PLASTERITE COMPANY

PLYMOUTH, MASS.

PLASTER RIGHT WITH PLASTERITE

THE PLASTERITE CO., Plymouth, Mass.
Please send me a generous sample of PLASTERITE, the superior plaster mixing material, so that I can test it out.

Name.....
Number..... Street.....
Place..... State.....
[ ] Architect. [ ] Contractor. [ ] Dealer.

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Eliminating the Step at the Store Entrance

Modern practice in store front design calls for the elimination of steps between the store and street levels. The use of a steep ramp is often the most practical way to accomplish this. That means a slip-proof walking surface if safety is to be considered.

Norton Floors products are especially suited for the purpose. Their surface is permanently slip-proof. Even water does not affect their non-slip properties. Thus no mats are necessary on rainy days. Norton Floors are unusually wear-resisting. They will stand up under the heaviest traffic.

There is a type of Norton Floor suitable for every class of entrance. Use one for your next store front job. It will win you the permanent good will of your client.

All types of Norton Floors are made permanently slip-proof, durable and quiet by the bonded electric furnace abrasive trade-marked "Alundum" —long used in the well-known Norton Grinding Wheels.

NORTON COMPANY : WORCESTER, MASS.

New York Chicago Detroit Philadelphia Pittsburgh Hamilton, Ont.

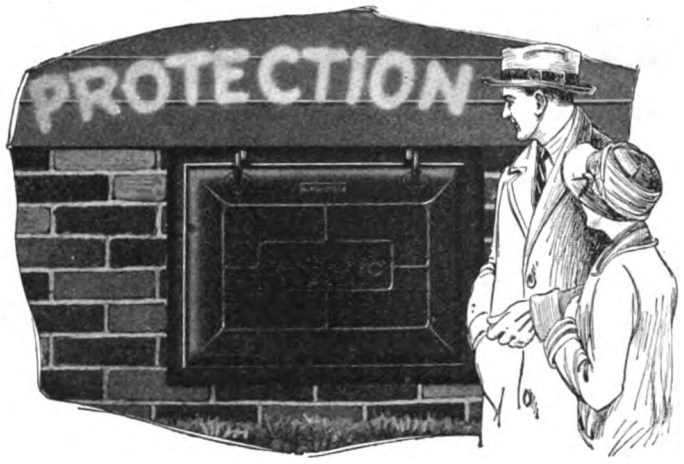
NORTON FLOORS

Alundum Tiles, Treads and Aggregates

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Majestic Coal Window

BREAK-PROOF ~ RUST-RESISTING



They Know

you've given them the best

WHEN they see the Majestic in the home you've built for them, they'll know you've given them *the best*—the coal window that protects them *permanently* against repairs, expense and depreciation soon imposed by an ordinary sash or "cheap" coal window. They know the Majestic is made of Certified Malleable Iron and Keystone Copper Steel, with glass or pressed steel door—guaranteed break-proof and rust resisting. They know all this because of past performance and years of national advertising. The Majestic is the standard of coal window quality and the largest-selling coal window in the world. Use Majestics in *every* home you build. It will pay you.

Majestic Coal Windows come in a variety of styles and sizes with or without hopper, and with glass or pressed steel door. Write for catalog and dealer's name.

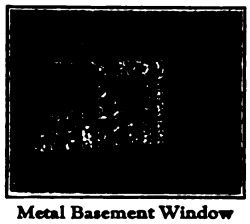
Other MAJESTIC *Quality Products*



Underground Garbage Receiver



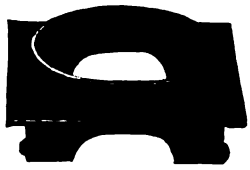
Milk and Package Receiver



Metal Basement Window



Cistern Ring and Cover



Cast Iron Flue Thimble

Other MAJESTIC *Quality Products*



Fireplace Damper



Fireplace Ash Dump



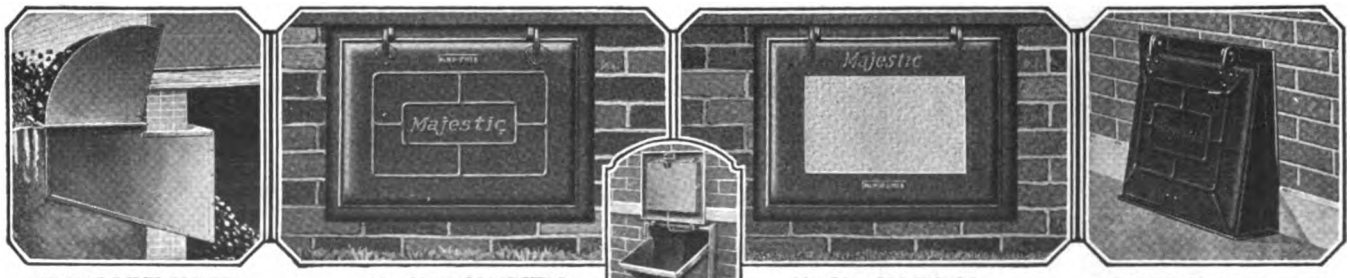
Flue Cleanout Door



Ash Pit Door



Cellar Wall Grate



GRADE LINE CHUTE — No. M101 MAJESTIC — No. M10 MAJESTIC — STORE COAL CHUTE

THE MAJESTIC COMPANY · HUNTINGTON INDIANA

Canadian Factory THE GALT STOVE & FURNACE COMPANY, Ltd., Galt, Ont.

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HESS *Welded Steel* FURNACE

The Hess Welded Steel Furnace eliminates the defects of the old style Cast iron "Pot" furnace.

Firebox, combustion chamber and ashpit are entirely inclosed in a huge steel radiator, in which every seam is sealed by riveting and then fusing the steel so it becomes one continuous piece. We guarantee these seams never to leak as long as the furnace shall stand.

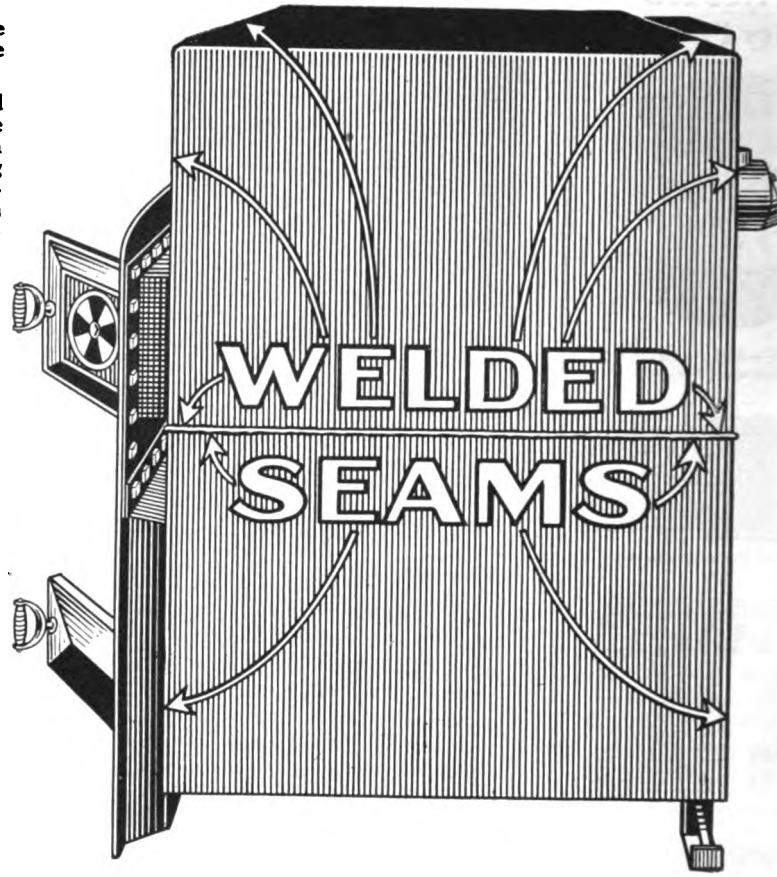
The area of this steel radiating surface is very large— evenly heated and radiates heat much faster than cast iron. A newspaper burned in it creates perceptible heat in the pipes.

All inner parts are placed through the fire door, without disturbing any part of the furnace or pipes, the cost of repairing therefore is trifling.

The grates area is large,— locomotive style,— and combustion, even with cheapest fuel, is perfect. Ideal for oil; the firebrick lining maintains the intense heat necessary for good combustion, and the welded seams and air tight construction prevent escape of odors.

Ample humidity is supplied by a water pan placed high, where the water heats and evaporates rapidly.

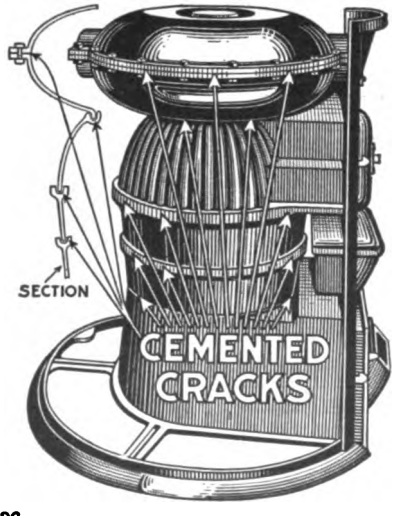
Any handy man can install it. We will loan you tools and give you full illustrated instructions. We make all pipes and fittings to fit your house, to your measurement.



Send us a sketch and let us show you how your local dealer, or you yourself, can install the outfit and secure perfect success, guaranteed by us. Our *plan service* is free, no charge nor obligation.

SOLD ON EASY PAYMENTS TO RESPONSIBLE BUYERS. SPECIAL RATES TO CONTRACTORS.

Ask for our illustrated book on furnace heating. It will interest you.



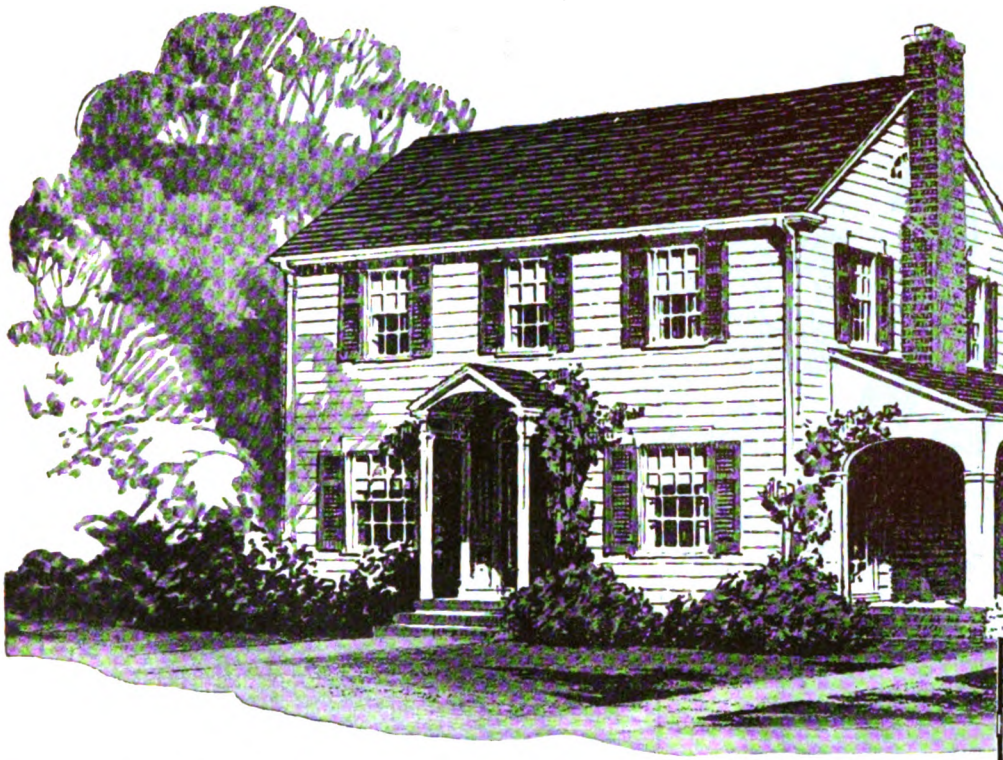
HESS WARMING & VENTILATING COMPANY

1201-L South Western Avenue, - Chicago

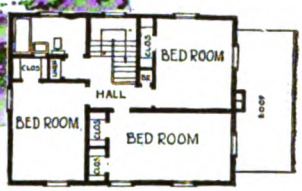
BRANCHES AT; BROOKLYN DETROIT CINCINNATI MILWAUKEE MINNEAPOLIS

The old type of cast iron "pot" furnace with 30 to 60 feet of cracks, small and unevenly heated radiating surfaces. Established a reputation for dirt and dust, and lives up to it. WE DO NOT MAKE THIS KIND.

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The Architects' Small House Service Bureau Design No. 6A66. Used by permission.





Even the Small House Can Afford Cork Insulation

THE net cost of insulating with Armstrong's Corkboard is so moderate that it is within the reach of practically every home builder. In the little home shown here, The Architects' Small House Bureau's design No. 6A66, the gross cost of 1½ inches of Armstrong's Corkboard on the outer walls and 2 inches on the second-floor ceiling would be $705.00, applied.

But to offset this are two distinct savings which the use of insulation directly effects:

In the first place, Armstrong's Corkboard would reduce heat losses so materially that the house could be comfortably heated with 35.5% less hot water radiation, representing a saving of $427.00 in heating plant cost alone.

Then, too, since Armstrong's Corkboard is itself an excellent base for plaster, no lath would be required on the outside walls and second-floor ceiling, which would mean a further saving of $115.00. *Thus the net cost of the insulation would be only* $163.00.

Finally, there is the factor of fuel economy still to be considered. Insulated with Armstrong's Corkboard, this house could be heated comfortably with 4.7 tons less anthracite coal than if no insulation were used. At $15.00 per ton, the annual saving would amount to $70.50, a sum sufficient to pay the **cost of the cork insulation in a very few years, and make a substantial return on the insulation investment every year after that.**

Specific information as to the cost of Armstrong's Corkboard for any dwelling or apartment house job on your boards will be supplied on request. Armstrong Cork & Insulation Company (*Division of Armstrong Cork Company*), 197 Twenty-fourth Street, Pittsburgh, Pa. In Canada, McGill Building, Montreal.

Branches in the Principal Cities



Made of pure cork in boards 12 inches by 32 or 36 inches—from 1 inch to 3 inches thick.

Armstrong's Nonpareil Corkboard Insulation

for Residential, Commercial and Industrial Buildings

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California PINE

California White Pine (trade name)

California Sugar Pine



Sidings that look well and "stay put"

THE HOUSE with California Pine siding stands as a permanent display of the architect's good judgment.

Siding of California Pine, not only looks well to start with, but *holds* its shape, lays flat without warping or end-shrinking, twisting or splitting. That is because of the remarkable cellular construction of California Pine, and its susceptibility to perfect seasoning.

Builders and carpenters, likewise welcome the specification of California Pine siding. The builder, because this siding is obtainable in all the various forms, of standard widths and lengths—the carpenter, because California Pine siding is so easy to cut, fit and nail securely to the sheathing. All of which makes for good workmanship without waste of time.

Then, as to painting—this light-colored, soft pine is easy to paint. The brush moves along readily while the paint flows evenly and spreads smoothly. California Pine holds paint—the coat *stays* smooth, because of freedom from pitch and grain-raising tendencies.



Carpenters like California Pine siding because it's easy to cut and fit, and makes for good workmanship.



Cork-like texture holds nails tightly and prevents splitting even with nails driven close to edge or end.



Paint flows evenly and spreads smoothly on California Pine. It *holds* paint well and the coat stays smooth.

If you have not received a set of our Information Sheets on California Pine, let us send them to you. You are also invited to correspond with our Wood Technologist, formerly with the U.S. Government Forest Products Laboratory, at Madison, Wisconsin, and now connected with this association.

California White and Sugar Pine Manufacturers Association

657 Call Building · San Francisco

Also producers of CALIFORNIA WHITE FIR · CALIFORNIA DOUGLAS FIR · CALIFORNIA INCENSE CEDAR

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A Combination Bath Tub

—PATENTED—

One size only, for all size people

Regular Bath, Seat Bath, Shower Bath, Foot Bath, and Child's Bath, all in one piece

Made of Semi-Vitreous Porcelain Ware

and

Enameled Iron Ware

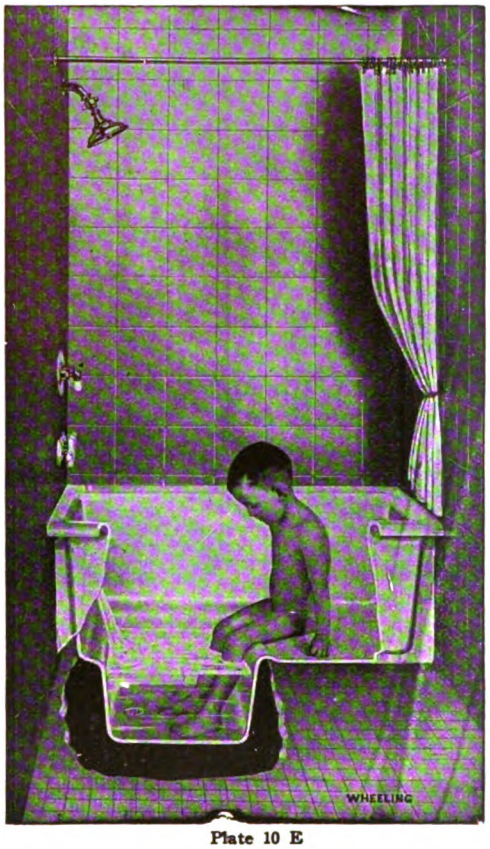


Plate 10 E

Enameled Iron Ware, 44x30 inches to tile in recess only. Enameled white front. Waste in foot section either right or left hand end. Only one size made.

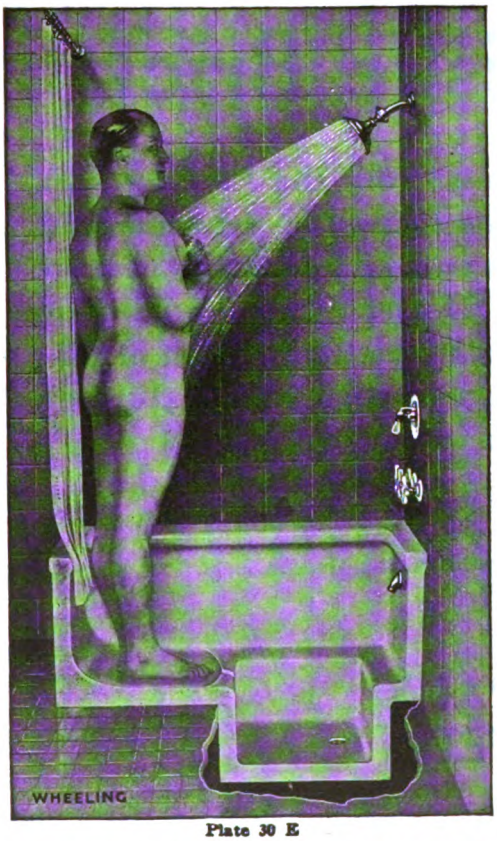


Plate 30 E

Semi-Vitreous Porcelain Ware, 44x30 inches to tile in right or left hand corner, or in recess. Glazed white all sides. Only one size made.

Testimonials

AMERICAN CARBONIC MACHINERY CO.
Wisconsin Rapids, Wis.

Gentlemen:—It gives me great pleasure to acknowledge receipt of your good favor of the 15th and say to you that we are very much pleased with the Combination Bath Tub installed in our new home. It is the first one of its kind here in the city and has made a decided hit with everyone who has seen it.

I personally like common-sense, practical things, consequently, I like this tub. It is convenient, accessible, takes up little room, and looks well in the bath room. I am every glad to express to you this entire satisfaction.

Very truly yours,
O. R. ROENIUS.

HENRY NEWGARD & COMPANY

Wheeling Sanitary Mfg. Co.,
315 Wrigley Bldg., Chicago, Ill.

Gentlemen:—The Wheeling Sanitary Bath Tub which we have recently had installed in our new home, is very satisfactory to the entire family and we are glad we did not select a bath tub of another style.

I am a man weighing 250 pounds and find it most satisfactory in every way.

Yours very truly,
MARTIN NEWGARD,
5746 Newark Ave.,
Chicago, Ill.

Sold through jobbers of Plumbing Supplies
Write us for descriptive circular

Wheeling Sanitary Mfg. Co.

Wheeling, W. Va.

Vitreous China Closet Bowls and Flush Tanks of all kinds.

Semi-Vitreous Porcelain Baths, Sinks, Lavatories, Drinking Fountains, Urinal Stalls, etc.
Enameled Iron Baths on feet and on base.

Branch Office and Show Room: 315 Wrigley Building, Chicago, Illinois

Williams & Devitt Warehouses, Harrison, N. J., and 146th and Exterior Sts., New York City

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Build It With Fiske Brick

THE garage, the fireplace, the wall or terrace .... when you are planning those improvements, plan to use Fiske Brick.

Fiske Brick makes a better job for the owners, means better business for the builder. A splendid line of trademarked bricks is available at the nearest Fiske Dealer. See him first if you want the final touch of distinction in color and texture of face brick.

"Tapestry," "Caledonian," "Fiske" and other high-grade Face Brick. At Fiske Dealers only.

FISKE & COMPANY INCORPORATED

New York Boston Watsontown, Pa.

FISKE BRICK

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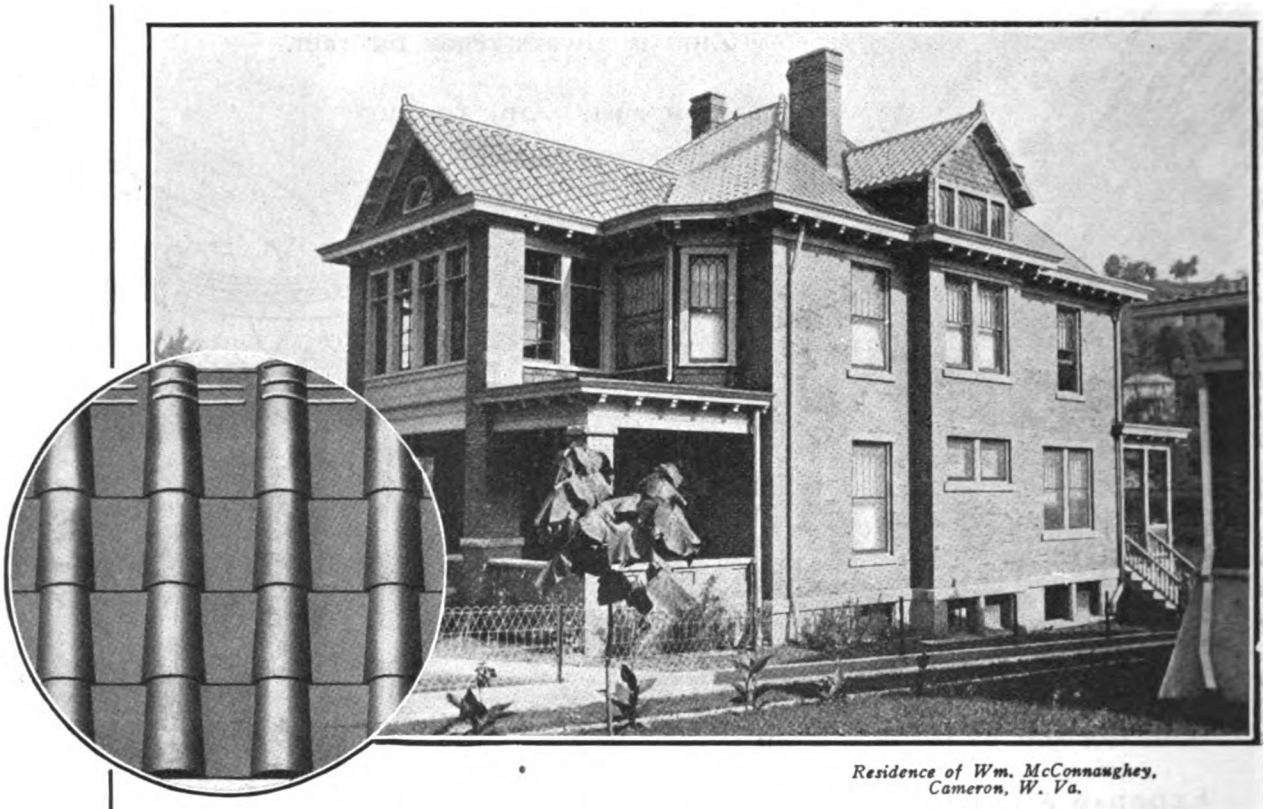
LET IT RAIN

Zinc is always ready for rain. It cannot rust. Zinc roofing equipment is permanent protection against the elements; heat or cold, rain or snow do not affect it. It will last a lifetime without repair. And it is not expensive. The cost of Horse Head Zinc, figured on the basis of its long life and its freedom from expense either for repair or replacement, is lower than that of any other metal.

The New Jersey Zinc Company
Established 1848
Products Distributed by
The New Jersey Zinc Sales Company
160 Front Street, New York City
CHICAGO · PITTSBURGH · CLEVELAND · SAN FRANCISCO



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Residence of Wm. McConnaughey, Cameron, W. Va.

On the Roof of Cottage or Mansion —*Put Lead for Permanence*

For residences, LEADCLAD is available in attractive Spanish Tile and several pleasing designs of formed metal shingles, affording roof designs in keeping with any style of architecture. LEADCLAD Eaves-trough, Conductor Pipe, Valleys and Flashings assure lead protection at the weaker points of the roof.

PURE lead doesn't rust. It knows nothing of wear. Century old roofs of heavy lead sheets preserve many of the important buildings of the old world. These thick sheets, however, are excessive in weight and lack rigidity. If the rust resistance of pure lead is to be utilized today, it must be in the form of light, workable sheets, adaptable to modern construction methods.

LEADCLAD is the answer. LEADCLAD *is* pure lead, strengthened and reinforced with steel. It combines the permanence of pure lead with the lightness and rigidity of steel. LEADCLAD brings to your roofing needs that lasting protection which comes when pure lead is placed to meet the ravages of time and weather. Yet in cost and upkeep LEADCLAD is much below other protective metals.

Find out about LEADCLAD. Write for samples, reports of tests, quotations, etc.

WHEELING METAL & MANUFACTURING CO.
Dept. M, Wheeling, W. Va.



LEADCLAD

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PURE LEAD — REINFORCED AND STRENGHENED WITH STEEL

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SANITAS
STANDARD STP TEXTILE PRODUCTS CO
BRAND
REG. U.S. PAT. OFFICE

SANITAS
MODERN WALL COVERING
Makes your walls an investment

More than a decorative material—it's a wall protection

WHEN Jack Frost battles with the heating system over which way to push the thermometer; when one day is damp and soggy, another cold and crisp, plaster walls will swell and shrink and then crack, and the wall covering will go with it, blister and peel—

unless the walls are protected with Sanitas Modern Wall Covering

Fluctuating temperature and humidity are no tax on the elasticity of Sanitas. The cloth back on which Sanitas is made holds the plaster so firm that cracks find it hard to get a start, harder yet to grow, and even then do not show through. Besides, Sanitas is an additional insulator; cold doesn't penetrate through this surface so heavily coated with durable oil colors.

Sanitas is an investment, not an expense.

THE STANDARD TEXTILE PRODUCTS CO.
320 BROADWAY. NEW YORK
Dept. B.A.

Our Architects' Service Bureau is prepared to discuss, in your own language, the relation of Sanitas to your architectural or building problems, to send you samples and literature, and to name sources of supply, if you ask us.

ARCHITECTS' SERVICE BUREAU,
The Standard Textile Products Co.,
320 Broadway, Dept. B.A., New York ..... Date

Gentlemen:—Please send me booklets on

- ☐ Sanitas Brocade Finish Wall Covering
- ☐ What They Say About Sanitas Modern Wall Covering
- ☐ Hints to Decorators
- ☐ Sanitas Modern Wall Covering And Its Uses
- ☐ Information For Decorators

FIRM NAME .....

ADDRESS .....

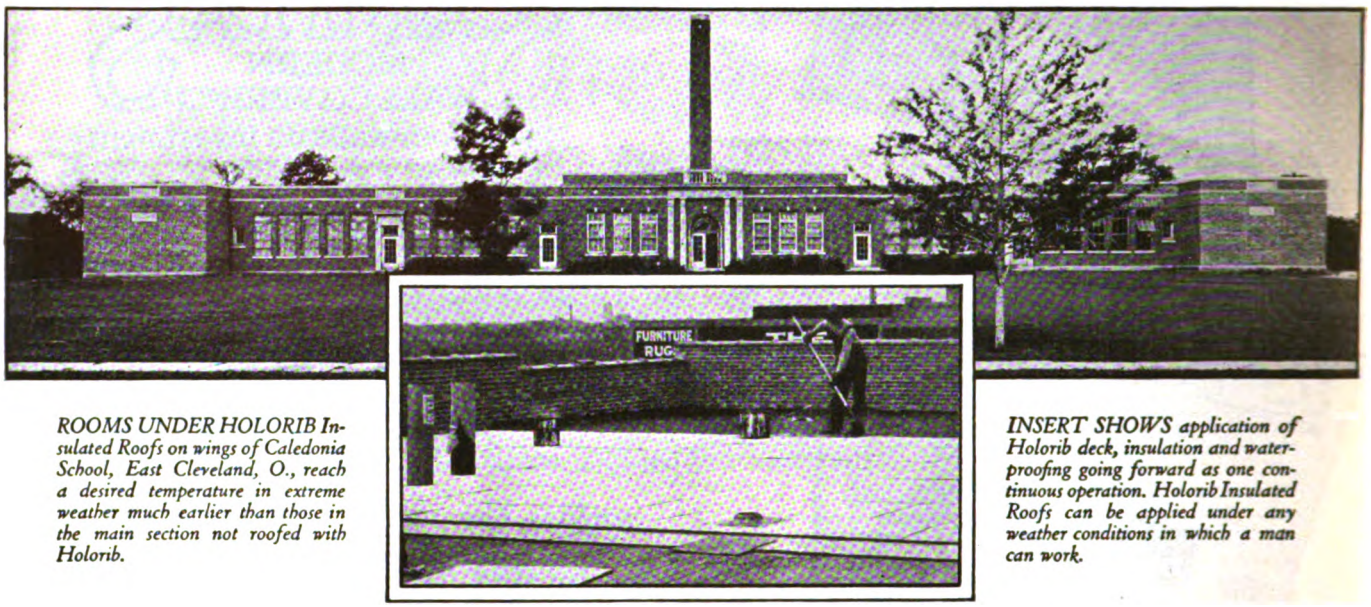
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HOLORIB

PATENT APPLIED FOR

TRADE MARK

INSULATED ROOFS



ROOMS UNDER HOLORIB Insulated Roofs on wings of Caledonia School, East Cleveland, O., reach a desired temperature in extreme weather much earlier than those in the main section not roofed with Holorib.

INSERT SHOWS application of Holorib deck, insulation and waterproofing going forward as one continuous operation. Holorib Insulated Roofs can be applied under any weather conditions in which a man can work.

Does Your Roof Leak?

East Cleveland Board of Education
OFFICE OF THE DIRECTOR OF SCHOOLS
SHAW TECHNICAL SCHOOL
CHARLES A. TILDEN, DIRECTOR OF SCHOOLS — EAST CLEVELAND, OHIO

August 12th-1925.

Holorib, Inc.,
2735 Prospect Avenue,
Cleveland, Ohio.

Gentlemen:

One year ago The Gillett Asbestos Company installed Holorib roofs on two wing additions to our Caledonia School, a one story building.

The rooms in these wings are situated at the extreme ends of a long building and have two and one-third walls exposed while the other rooms in the building have a single wall exposed, the rooms having equal glass area and radiation. The roofing over the central portion of the building is wood sheeting covered with three ply felt and asphalt roof.

The operation of this building has proved most interesting. We find that the rooms which heat most quickly are the ones in the wings and generally in extreme weather they reach the desired temperature at least a half an hour before the inside rooms. On days when the weather is very warm, we find that the rooms in the wings remain ten to fifteen degrees cooler than the balance of the rooms which is conclusive that the Holorib roofing contributes very valuable insulating qualities for a comfortable and economical operation of a building.

I am

Very truly yours,

Chas A Tilden
Director of Schools.

WATERPROOFING is not the only roof protection required. Many a watertight roof leaks heat, thousands of dollars' worth during its lifetime because, while waterproof, it does not provide an impervious barrier to loss of heat.

Holorib Insulated Roofs supply maximum insulation, completely preventing condensation and decay, stopping fuel waste and producing even temperature conditions.

A Holorib Roof deck, the lightest permanent deck in existence, pays for itself by allowing minimum weights of structural members from foundation up, without sacrifice of structural strength.

A complete Holorib unit consists of a steel supporting sheet self reinforced by closed triangular ribs, each rib a complete girder beam. The deck, within its own structure, provides for expansion and contraction. This supporting structure is insulated and waterproofed under Holorib Specifications.

Holorib Roofs are reasonable in price and quickly laid under any conditions. They are highly fire resistive and permanent—ideal roofs for new buildings or for replacement. ***Write for full information.***

HOLORIB, Inc.

2735 Prospect Avenue

CLEVELAND, OHIO

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SAVE HALF - INSTALL YOUR OWN PLUMBING AND HEATING BY OUR *New Easy Method*



Get This Big Book

ANY HANDY MAN

can install his own plumbing and heating by our **new easy method** and **save half.** During the last 50 years, we have saved builders and contractors hundreds of thousands of dollars in the cost of

Plumbing Goods, Pipeless and Warm Air Furnaces, Steam Boilers, Hot Water Boilers, Water Supply Systems, Water Heaters, Bathroom Outfits, Pipes, Radiators, Valves and Supplies.

You Save Half

BIG HANDY MAN BOOK

Tells the whole story. Shows the Hardin-Lavin **New Easy Method.** Send coupon with 25c (regular price 50c, refunded on first order) for your copy today. This Big, Instructive, Well-Bound "Handy Man" Book-Catalog shows 10,000 items in latest style, highest quality Plumbing and Heating Fixtures and Supplies at **Wholesale Prices.**

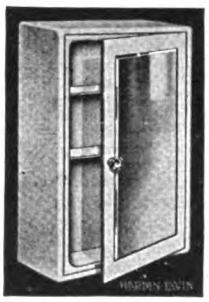
HUNDREDS OF TRADE SECRETS

Shows also many valuable diagrams, plans and elevations of simple installing systems. Also trade secrets and money, time and labor-saving kinks. **Send 25c for your copy TODAY.**

Enameled Steel Medicine Cabinet

$8.95 **Highest Quality and Snow White**

All joints electrically welded before cabinet is enameled. Finished with four coats of baked enamel, inside and out. Plate glass bevelled mirror, and two plate glass shelves. Recommended for high grade bathrooms, physicians' offices, etc., in fact wherever a high grade, beautiful, sanitary cabinet is wanted.



Beautiful and Durable

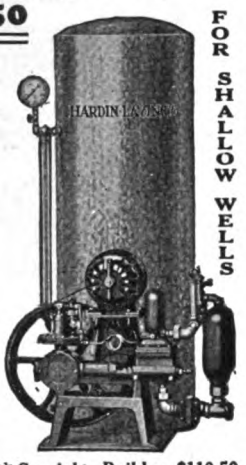
Cabinet is fitted with heavy glass knob and enameled non-sag hinges. Fixture cannot come apart or sag, will last a lifetime. Every cabinet is **guaranteed** to be entirely satisfactory and is carefully crated so that we guarantee it will reach you in first-class condition. Dimensions: Height, 21 inches; width, 16 inches; depth 5 inches. Cabinet complete as shown and described. Shipping weight 35 pounds.

No. 3137—White Enameled Cabinet. **Special to Builders..... $8.95**

SUPER-IMPROVED AUTOMATIC ELECTRIC WATER SUPPLY SYSTEM, Complete

One of the most carefully designed, substantially constructed Automatic Electric Water Supply System on the market. Absolutely reliable, foolproof and simple. Can be depended upon to give lasting service with practically no attention. (A better outfit is not made.) FOR SHALLOW WELLS OR CISTERNS WHERE WATER IS NOT OVER 22 FEET BELOW SURFACE.

$98.50



FOR SHALLOW WELLS

NOISELESS PUMP Runs in Oil

Our pump is noiseless, double acting, brass fitted throughout and fully enclosed and lubricated by the "New Splash System." All moving parts run in oil bath, which insures lasting service. Latest type oversize 1/6 Horse Power electric motor, operates economically and is thoroughly reliable; surplus power to drive pump under all conditions.

Outfits Complete — No Extras

System consists of pump with automatic air valve, oversize 1/6 Horse Power repulsion induction motor, automatic switch set at 40 pounds, relief valve, shut-off valves, necessary pipe and fittings, as shown; 1 galvanized heavy pneumatic tank with pressure gauge; 1 ¾-inch galvanized foot valve and strainer. Pump has ¾-inch suction and discharge. Outfit equipped with 60 cycle, 110-220 volt, single-phase alternating current motor. If you have other current, state voltage, phase, etc.

No. A-300 Water Supply System with 42 Gallon Tank, shipping weight 300 pounds, price complete..... **Special to Builders $98.50**

No. A-301 Water Supply System with 80 Gallon Tank shipping weight 340 pounds, price complete **Special to Builders $110.50**

No. A-302 Water Supply System with 100 Gallon Tank, shipping weight 380 pounds, price complete.. **Special to Builders..$122.50**

Systems shipped out of our Chicago Plant same day order is received. **Order TODAY and SAVE**

Chicago Highest Grade Bathroom Outfit Complete $59.95



Fixtures furnished with our "Chicago" bathroom outfit are built along practical and attractive lines, are perfect and of the highest-grade that it is possible to MAKE. Shows that FIRST quality Hardin-Lavin products can be had at low cost.

Deep Apron Lavatory

Late design, white porcelain enameled, cast-iron drop apron lavatory, supported on concealed wall hangers; new low design, china indexed compression faucets, heavy brass, nickel-plated adjustable supply pipes and trap to floor or wall, size 17x19½ inches, weight 120 pounds.

Chicago A-31—Lavatory, complete as shown with Iron Pipe connections. **Special to Builders.....$11.75**

White Enameled Bathtub—Tub is cast iron, heavy white porcelain, enameled inside and over the 3¼ inch turned-over rolled rim; outside of tub is painted. This is our newest design, having a pleasing appearance and the highest grade leg tub manufactured. Fitted complete with heavy brass, nickel-plated compression bath faucet, with china indexed handles, nickel-plated heavy brass adjustable waste and overflow and supply pipes to floor; width 30¼ inches, length 4½ or 5 feet, weight 300 pounds.

Chicago A-30—Bathtub complete as shown with iron pipe connections. **Special to Builders.....$31.10**

White Closet Outfit—Improved, snow-white composition china closet tank (beautiful and indestructible); fitted with solid brass elevated noiseless valves and improved china flushing handle. Highest-grade white vitreous china syphon washdown bowl. Highly polished reinforced birch mahogany seat, with heavy brass, nickel-plated bar hinges, flushing ell, supply pipe, closet bolts, etc., weight 125 pounds.

Chicago A-32—White Closet Outfit, complete as shown with iron pipe connections. **Special to Builders $19.95**

Chicago A-33—Bathroom Outfit, complete as shown and described. **Special to Builders.....$59.95**

All shipped out of our Chicago plant same day order is received. Order today and save. You cannot lose.

CUT-TO-FIT Heating Plants

Steam—Hot Air—Pipeless—Hot Water

Hardin-Lavin Cut-to-Fit Hot Water Heating Plants give highest heat efficiency at lowest cost. Boiler is built according to best engineering practice. Has scientifically designed, easy dumping grates, and long, indirect fire travel that insures complete combustion and maximum heat. Our modern equipment and 50 years of practical experience has qualified us to produce a boiler that will burn any kind of coal, hard or soft, cleanly, completely and economically.



Hot Water Boiler

We Help You Plan and Install

Every Hardin-Lavin Heating System is figured to eliminate long runs of piping, to save valuable time, unnecessary materials, and expensive labor. You can do the installing yourself with our complete directions and simple installing features. We loan tools if necessary. Write today for low wholesale prices.

Free Estimate—No Obligation

Send us a rough sketch or blue print and we will figure the wholesale cost of heating plant or plumbing system at savings that will surprise you. You save waste, unnecessary material and expensive labor with our new method and free, easy, installing plans. Our Bonded Guaranty covers every purchase. Behind our Guaranty stands our **million dollar plants** and our record of 50 years' service to economy buyers.

Read Our Guaranty

Then write this magazine, Dun's or Bradstreet or your bank about our 50 years' record of square dealing in the same business. **Order today and save. You cannot lose.**



Pipeless Furnace

MAIL THE COUPON TODAY!

OUR BONDED GUARANTY and LABEL PROTECTS YOU

We guarantee that every water supply system, plumbing outfit, heating plant or any article that you buy from us, from the smallest fitting to a complete installation, is perfect and exactly as shown and of the HIGHEST GRADE that is possible to manufacture.

HARDIN-LAVIN "GUARANTEED" HIGHEST GRADE FITTINGS QUALITY

We further guarantee that if for any reason you are dissatisfied you can return any goods bought from us and we will immediately refund your money plus freight charges you have paid. **Could Anything Be Fairer!**

(Signed) **HARDIN-LAVIN CO.**

Hardin-Lavin Co., 105-115 W. Pershing Road, Chicago, Ill.

Gentlemen: Enclosed please find 25c (one-half regular price) for which send me your Big Complete "Handy Man" Book-Catalog with special **wholesale** discount sheets and Free Bulletin Service. I am interested in:

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Note: "Handy Man" Book is FREE if order accompanies coupon.

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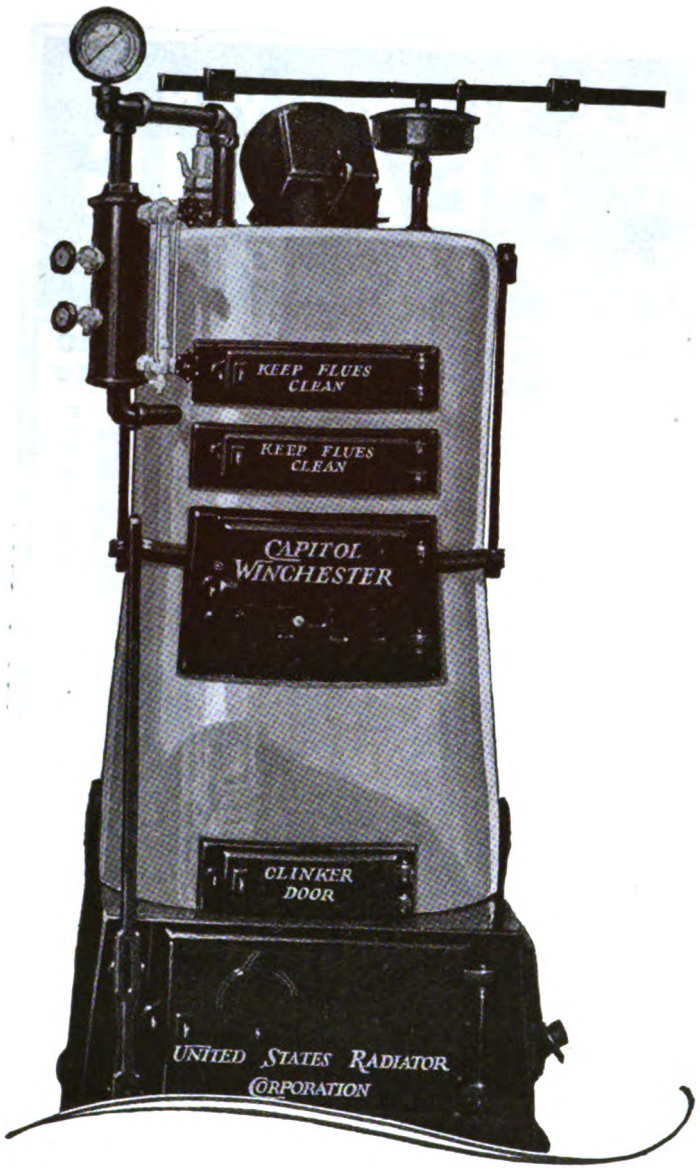
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Any manufactured product is more than half sold when it is *known* and *respected* by millions of people.

That's why the story of Capitol quality is being broadcasted in a national advertising campaign to the nation.

This campaign, please remember, is working for you day and night. It supports every specification that calls for a Capitol installation.

Capitols have always been fine quality products. They are now recognized by the public as preferred boiler investments.

UNITED STATES RADIATOR CORPORATION
General Offices, Detroit, Michigan

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*Springfield, Mass.	Buffalo	*Louisville
*Portland, Me.	Pittsburgh	*St. Paul
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New York	*Columbus	*Kansas City
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*Troy, N. Y.	*Detroit	*Omaha
*Brooklyn	*Chicago (So. Side)	*Denver
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*Warehouse stocks carried at points indicated by star

Capitol Boilers

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Artistic Roofs That Endure

Here's a fireproof Asbestos Shingle that yields rich color blends—a shingle with a thick, broken edge that gives the desired shadow effect—and a shingle that is produced by a process that distributes most of the asbestos fibers lengthwise and absolutely eliminates the chance for porous spots.

Samples and detailed information on request.

Asbestos
Shingle, Slate & Sheathing
Company

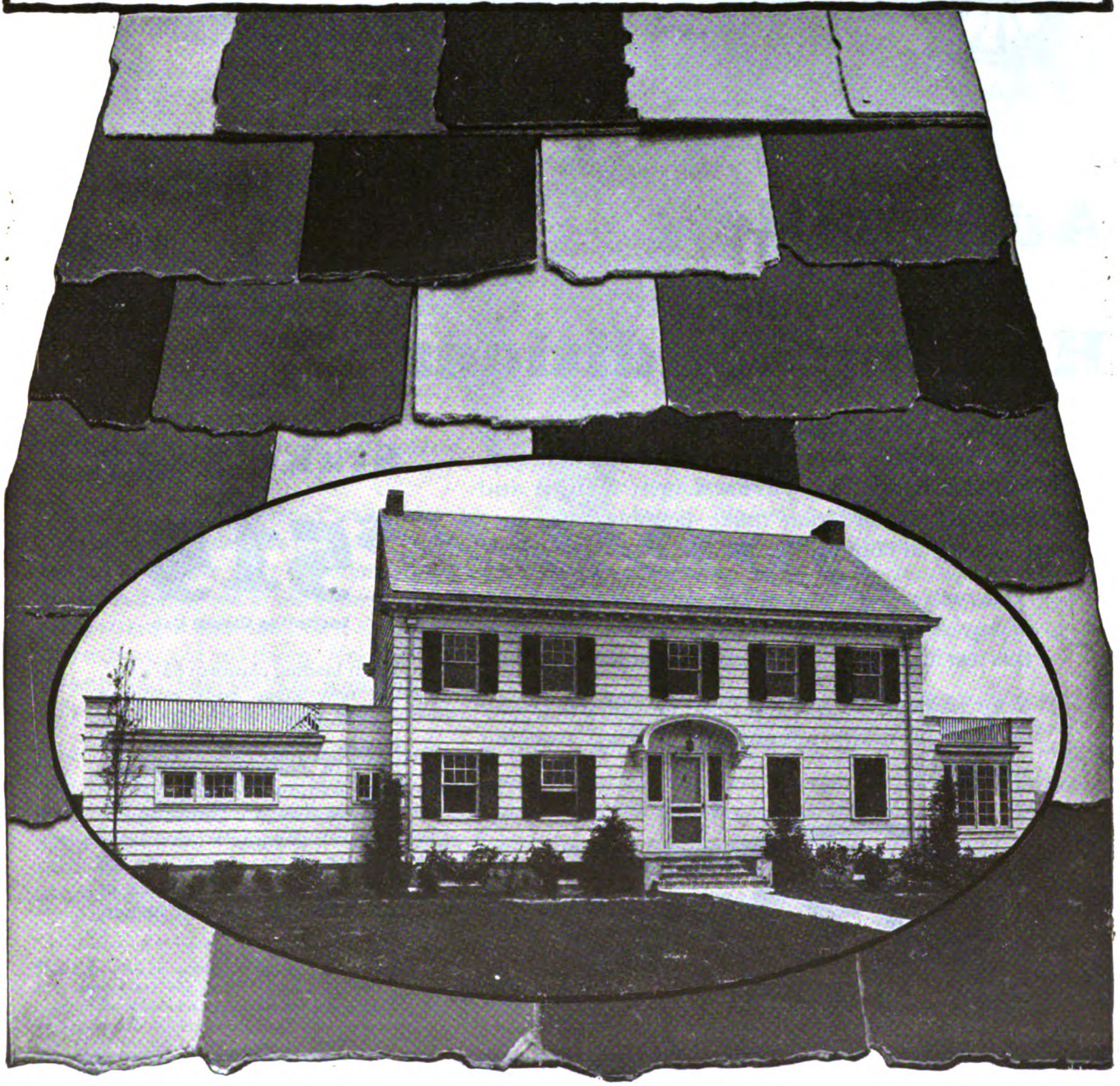
Dept. C Ambler, Penna.

The illustration below pictures approximately the effect produced by using 30 per cent. of Newport, or Natural Gray, with 40 per cent. of Pearl Gray and 30 per cent. of Blue-black.

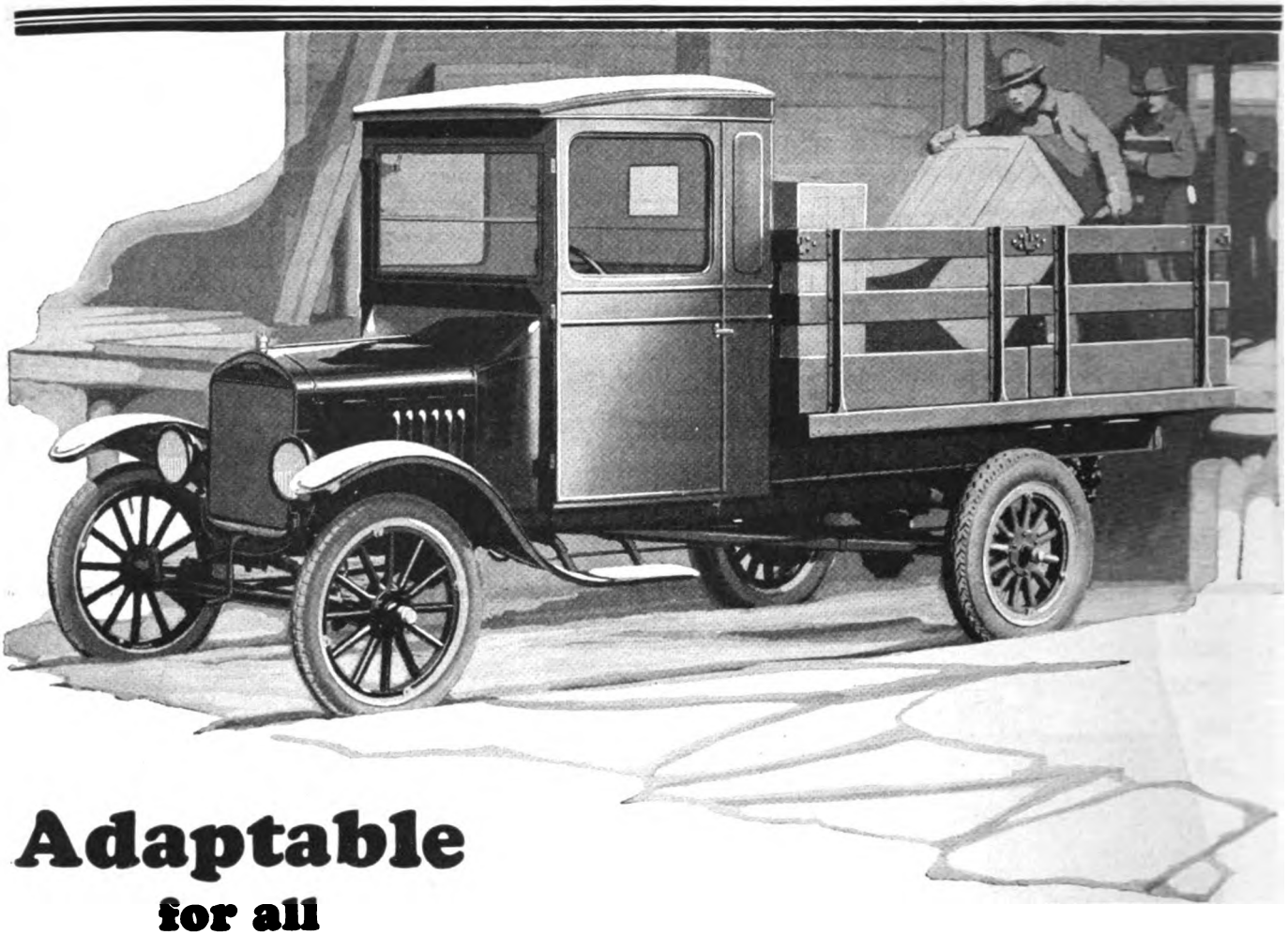
Many other color blends possible with our full range of Newport Gray, Pearl Gray, Indian Red, Tuscan Red, Spanish Brown, Purple, Buff, Blue-black and Green.

Branch Offices:—Baltimore, Boston, Buffalo, Chicago, Cincinnati, Detroit, Cleveland, Minneapolis, New York, Omaha, Philadelphia, Pittsburgh, Washington, Wilkes-Barre; Toronto, Canada; Havana, Cuba.
Southwestern Distributor:—R. V. Aycock Co., Kanass City, St. Louis, Tulsa, Houston.
Southeastern Distributor:—Berry Asbestos Co., Atlanta, Ga.
California Representative:—J. A. Drummond, Los Angeles, San Francisco.
H. G. Sperry & Company, Utah, Idaho, Nevada and Washington Representative: Offices—Salt Lake City and Seattle.
F. T. Crowe & Company, Washington Representative: Offices—Seattle and Tacoma.
Dixie Asbestos Co., Birmingham, Ala.

Other distributors throughout the country.



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Adaptable
for all
Hauling Conditions

Ford trucks are ideal for winter deliveries as they can be readily maneuvered in crowded streets, alleys and loading yards. Light weight and compact construction make possible safe, easy handling in congested traffic and on icy streets.

The rush of holiday business is the supreme test of any delivery system. Ford trucks will meet this test in an economical and satisfactory manner.

Your nearest Authorized Ford Dealer will gladly explain the many advantages of Ford trucking equipment.

Stake Body

$515

Including Closed Cab

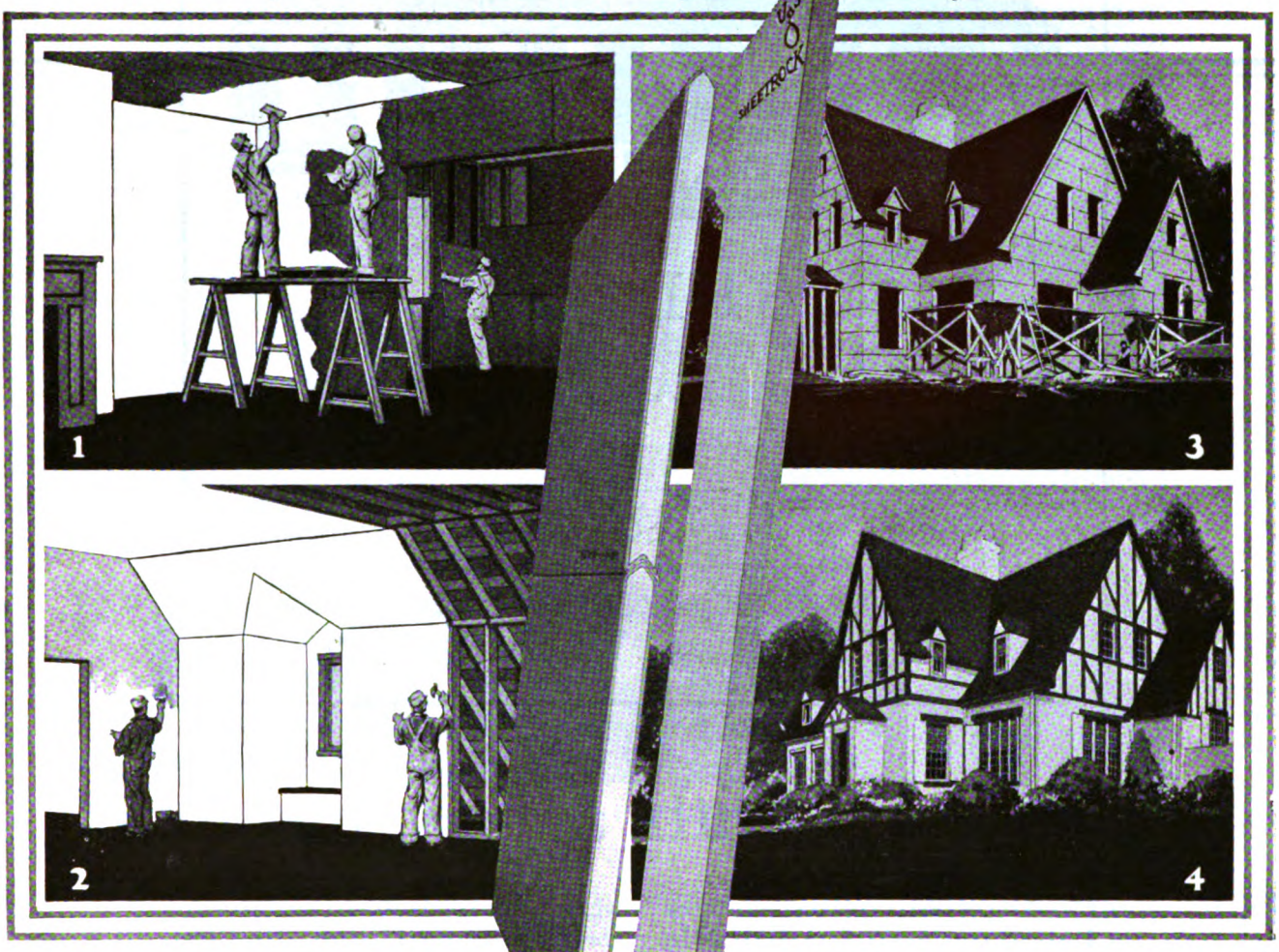
With loading platform 65″x99″, the new stake body provides ample room for bulky materials. Sectional side and end racks 26″ high may be removed. Body frame is steel reinforced for extreme strength. Comes equipped with pneumatic cord tires. Closed all-steel cab affords every protection with plenty of comfort for driver and helper.

Ford

CARS • TRUCKS • TRACTORS

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Four ways to make homes easy to sell &



Pictured above are four ways to make your buildings fireproof and heat-insulating, economical to erect and easy to sell at a good profit.

Beginning with the interior walls, finest results are obtainable from the use of (1) USG Red Top Plaster on a Rocklath base. This plaster is the highest grade gypsum, of uniformly great strength and durability, and highly resistive to heat, cold and damp. *Rocklath* is fireproof, smooth and non-warping, eliminating ordinary lath that buckle and deface good plaster.

Use (2) Sheetrock, the *fireproof* wallboard (to line the basement, attic and garage). Pure gypsum cast in sheets, it makes permanent, tight-jointed, non-warping walls and ceilings at low cost. Decorate the walls with (2) *Textone,* the painter and decorator's wonderful new medium for textured designs in color on any base.

For the exterior, the ideal sheathing is (3) Gyp-Lap. Its fireproof, insulating and economical qualities assure comfort and safety. No building paper or felt is needed with it. Nailed to the framework, the large units brace the entire structure against wind-stresses and strains, while their air-celled core of gypsum provides the strongest structural insulation known.

Finally, for a permanent, attractive exterior, you should use (4) *Oriental Stucco.* Scientifically proportioned and machine mixed, it needs only the addition of water at the job. Oriental Stucco Finish coat comes in eleven mineral colors and white.

UNITED STATES GYPSUM COMPANY
General Offices
Dept. 3, 205 West Monroe Street, Chicago, Illinois

These materials are uniform in quality and available everywhere. For detailed information, descriptive booklets or samples, fill out and mail coupon to United States Gypsum Company, Dept. 3, 205 W. Monroe St., Chicago.

USG PRODUCTS

Please send me information about U S G Products.

Name.....

City..... State.....

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LEHIGH CEMENT

USED BY

(YOUR NAME HERE)

PERMANENT SATISFACTION
from DEPENDABLE MATERIALS
and COMPETENT WORKMANSHIP

A job sign with a new meaning

THIS SIGN offers contractors something they never had before. It puts behind them the help of a big advertising campaign in which the importance of contractors is prominently featured.

This sign says "Permanent Satisfaction from Dependable Materials and Competent Workmanship." Above this message is a large space for imprinting your name.

What this means to you

On a new building this sign effectively tells passers-by that the contractor has supplied Dependable Materials and Competent Workmanship. It makes prospective builders feel that the contractor gives permanent satisfaction whatever he builds. And it identifies the contractor with the Lehigh advertising which emphasizes the value of a good contractor.

The Lehigh advertisements in The Saturday Evening Post, Literary Digest, leading farm papers and other important publications, constantly urge prospective builders to appreciate the importance of having a satisfactory contracting connection. These advertisements tell people in your neighborhood they will save money by employing a good contractor and depending on him for Dependable Materials and Competent Workmanship.

This sign is part of a plan which will help you increase your business. Write to us for details or ask to have a salesman call.

LEHIGH PORTLAND CEMENT COMPANY

ALLENTOWN, PA.
BIRMINGHAM, ALA.

LEHIGH CEMENT

CHICAGO, ILL.
SPOKANE, WASH.

19 MILLS FROM COAST TO COAST

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C. E. DAY, Architect, Detroit.

Mettowee Stone, laid in random irregular shapes and assorted colors, is strictly in keeping with modern ideals of architecture.

Our circular "J" will tell you more about it—send for a copy.

· Largest Shippers of Roofing Slate in the World ·

VENDOR SLATE CO. INC.

EASTON-PENNSYLVANIA

HAMMANN BUILDING

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Because of its unusual strength metal lath is the architect's choice for arches, suspended ceilings and similar difficult work.

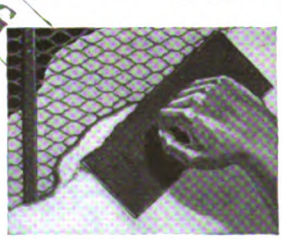
THESE MEN *can build* ETERNITY *into your walls*

THE beauty of your walls depends on these men—the Lather and the Plasterer. More than eighty-five per cent of the wall area in most homes is their work.

With expanded metal lath—made from Sheet Steel—this beauty becomes permanent. The plaster will endure as long as the building. The ugliness of cracked and broken plaster and lath marks as well can never mar your walls. The cost of continuous repair and redecoration is thereby eliminated.

What is more, this metal lath gives you a new safety from fire. If fire starts in your home consider what this added safety means to your buildings, *your* priceless treasures, *your* loved ones.

BETTER PLASTERING



Plaster on metal lath is rated *one hour* protection by the Underwriters' Laboratories as against *four minutes* for plaster on combustible lath.

And Sheet Steel prolongs the life of buildings in many other ways. A steel roof, properly grounded, is lightning-safe. Live sparks and flaming embers harmlessly burn themselves out. In the form of Spanish or French Tile, Sheet Steel gives unusual beauty with its delightful contrasts of light and shade.

Our booklet, "THE SERVICE OF SHEET STEEL TO THE PUBLIC," has many Sheet Steel suggestions for heating systems, garages, wall linings, ceilings, cornices, etc. A copy mailed on request.

SHEET STEEL
TRADE EXTENSION COMMITTEE
OLIVER BUILDING
PITTSBURGH PENNSYLVANIA

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BUILDERS TRADE GUIDES

Audels Builders Guides give you practical help in your daily work. They are easy to read and understand, giving complete inside information on the Building Crafts. Each of these sets is a step-by-step *Trade School Course* for the apprentice—a trusted *Reference* for the journeyman and master. Use the coupon below to order the Guides that interest you. Then start easy payments if you are entirely satisfied.

Audels Carpenters and Builders Guides 4 Vols. $6



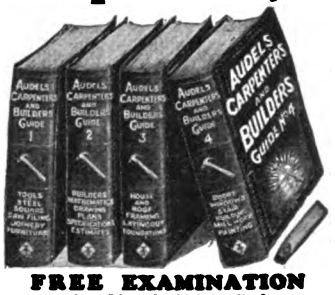
"Audels Carpenters Guides are worth four times their price—very handy too as I carry them in my pocket for ref rence." W. J. Bates, Knoxville, Pa.

Inside Trade Information for Carpenters, Builders, Joiners, Building Mechanics and all Woodworkers. These Guides give you the short-cut instructions that you want—including new methods, ideas, solutions, plans, systems and money saving suggestions. An easy progressive course for the apprentice and student. A practical daily helper and Quick Reference for the master worker. Carpenters everywhere are using these Guides as a Helping Hand to Easier Work, Better Work and Better Pay. To get this assistance for yourself, simply fill in and mail the FREE COUPON below.

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How to use a mitre box
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How to use settings 12, 13 and 17 on the steel square
How to build hoists and scaffolds—skylights
How to build stairs
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How to hang doors—build stairs
How to lath—lay floors
How to paint

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FREE EXAMINATION
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1600 PAGES—3700 ILLUSTRATIONS
Flexible Binding—Pocket Size

Audels Masons and Builders Guides 4 Vols. $6



"Audels Masons Guides are the best books to be had on the subject. Have laid brick for 12 years and am able to judge." H. A. Sonnett, Carlisle Ste., Pa.

A new, complete, illustrated trade reference library in four handy volumes. For Bricklayers, Cement Workers, Plasterers, Tile Setters and Stone Masons, including a practical outline of Steel Construction. This new set is a practical Trade Assistant explaining clearly the approved modern methods of masonry construction in all its branches. Easy to understand and apply to every day problems. A reliable and authentic reference work and study-course for the Master Journeyman and the Young Mechanic. Use FREE COUPON below and find out for yourself, without obligation, whether this set will benefit you.

Inside Trade Information On:

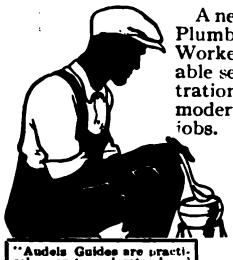
Bricklaying, tools, materials
Brick designs, patterns, bonds
Setting frames and foundations
Mortars, scaffolds, estimating
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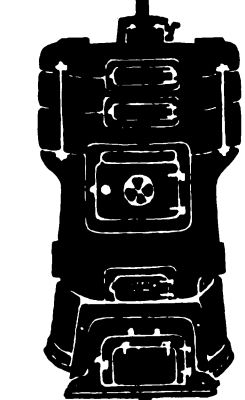
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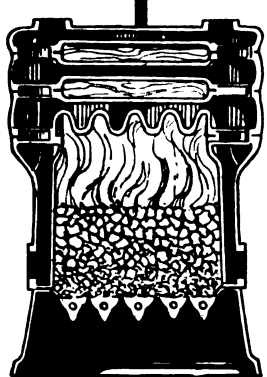
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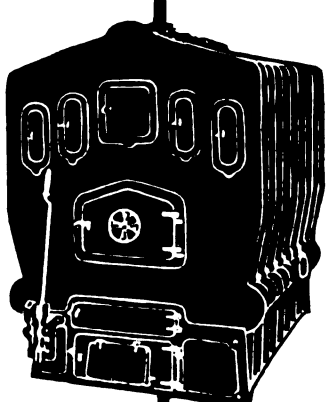
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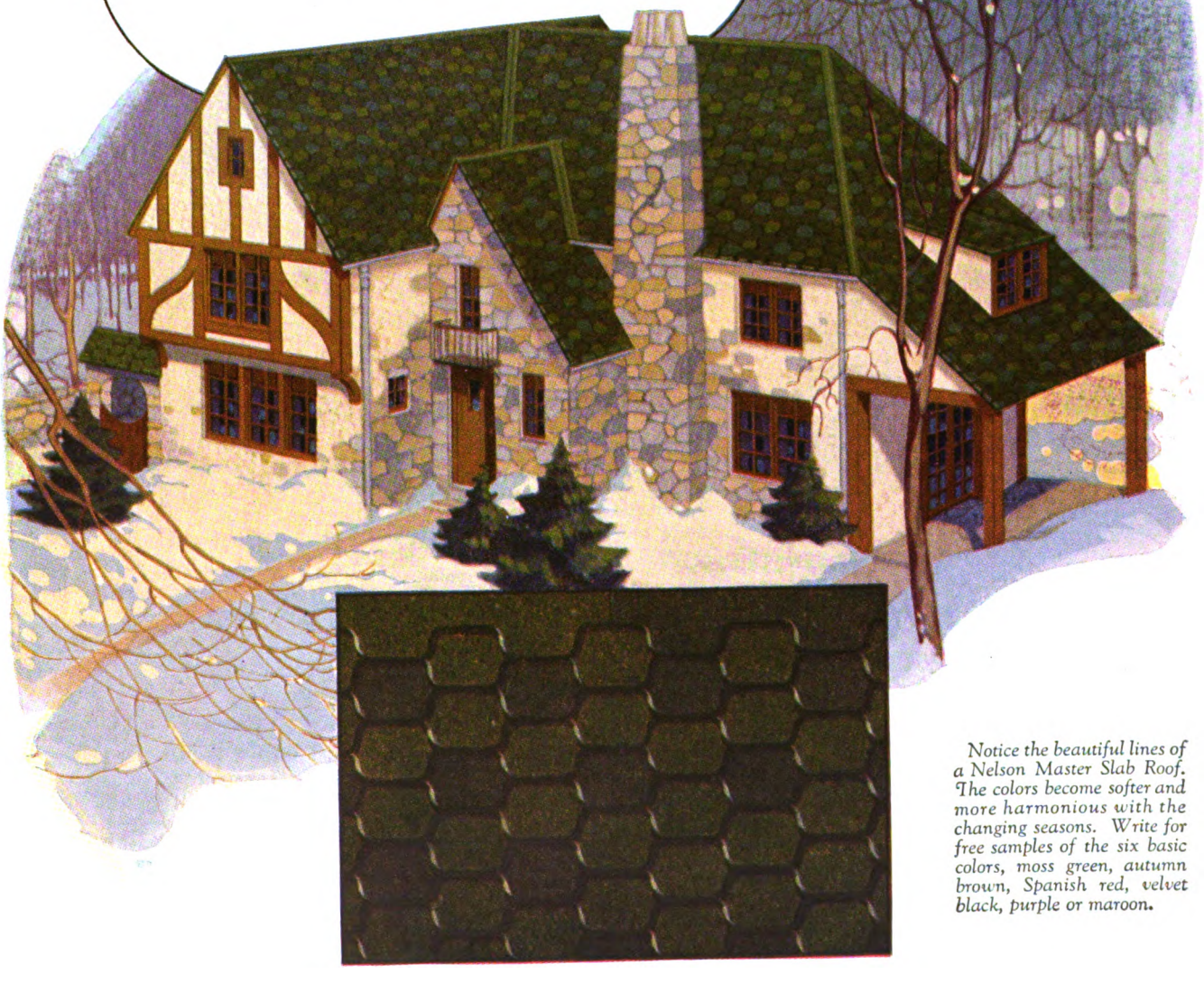
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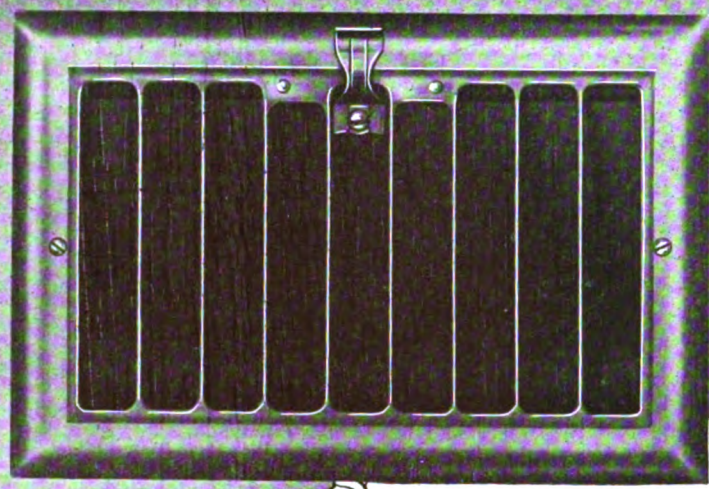
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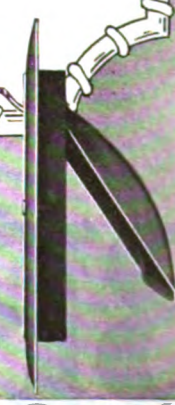
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New York, December, 1925

A Merry Christmas

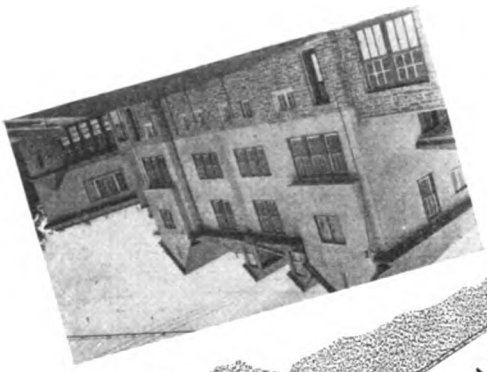
AS this issue goes to the printers, the roar of the presses and the clatter of the collators seem to chime a tune of cheer. To you, the subscriber; to you, the advertiser; to you, the contributor—to all—there is carried our appreciation and this message, clear and true: We hope for you and yours the merriest of Yuletides; we offer the heartiest of congratulations on a twelvemonth's work well done; and we look for you, and with you, for the prosperity the industry deserves during the year which lies just around the corner.

The Staff of
Building Age and National Builder

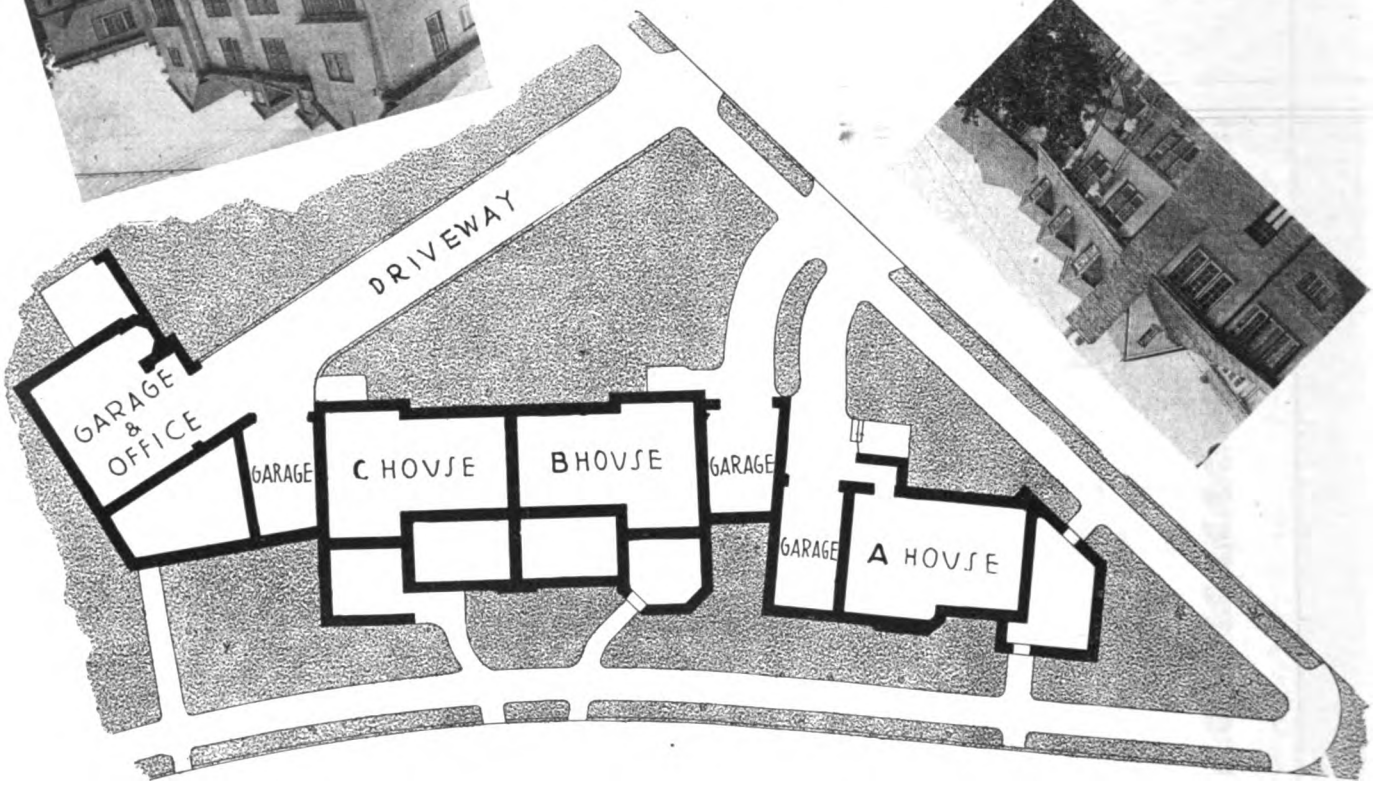
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Creating an Ideal Spot from a So Called Hillside Blot

Told By
Theodore Maisch



POSITION of illustrations on this page show locations of camera on site when photographs were taken. They give some idea of the demands this plot made on builder's ingenuity





RIGHT end of plot layout is the lowest as illustrations bear witness. Photo on left shows the fronts of houses C, B and A

HOUSE A is seen in foreground (right). This is the plot's lowest point with one street climbing the hill and the other dropping down to railroad station seen at the right



ONCE in so often a man comes forward, the artist type, and beautifies the waste places. He finds some spot shunned by the practical—or so-called practical man—visualizes the discard as a work of providence, and builds.

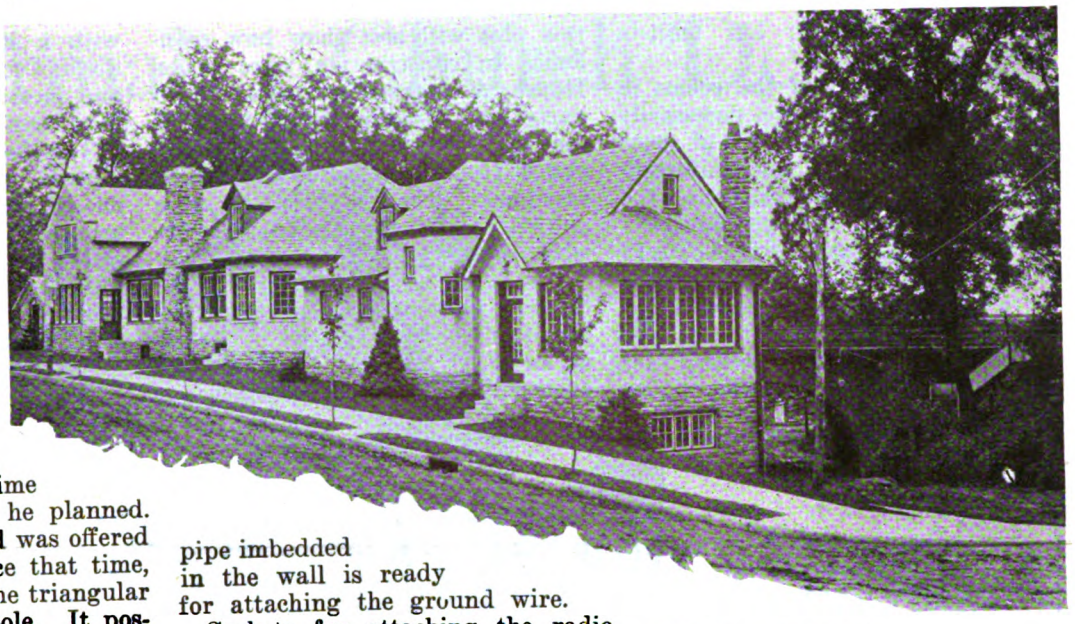
His efforts are usually frowned upon by all. Unable to visualize, as he has, the ultimate results of his imaginings, they are prone to discourage every attempt at beautifying the falsely termed "hopeless plot". When the builder has converted one of nature's freaks and turned it to his advantage, then the results prove even more satisfying than do the ordinary run of development projects. Where formerly there stood out an unpleasant jog in the earth's surface, the transformation shows a pleasant treatment of interior layout. Where the ground sloped so swiftly that it terrified the average builder, the converter of the waste plot has capitalized on it.

Mr. H. E. Cassel, a Philadelphia builder, is just such a reclaimer of waste land. Back in 1914 he acquired a considerable piece of ground surrounding Fisher Station, in Germantown, including a crude triangular piece formed by the intersection of Stenton Avenue and Logan Street. From the grade on Stenton Avenue the ground dropped suddenly from fifteen to twenty feet, forming a miniature precipice.

Mr. Cassel was not ready to build.

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HERE are three pleasing designs that a Germantown builder created on a "hopeless site." Its disadvantages have been turned to advantages, as will be seen. Each design is different and adapted to its particular site. Note proximity of railroad station—a feature that helped considerably.



He held the property awaiting an opportune time to carry out the work he planned. A portion of the ground was offered to various builders since that time, but none would touch the triangular piece with a ten-foot pole. It possessed one advantage. It was only a stone's throw to the railroad station across the street.

The photographs show the results after Cassel had conjured up mental pictures, made plaster of paris casts of his dreams, reduced the abstractions to blue-prints and employed men to build. An architect, William Campbell, was retained to check up the plans.

On a frontage of about 135 feet, four houses of the English type, built of local stone, stucco-covered hollow tile and rough slate roof, were built. They contain every modern devise calculated to please the whims of the most exacting housewife. The sharp depression of the ground proved an advantage despite the filling and grading that was required, for many little nooks and corners were born during the process of utilizing the waste.

Obviously, each house required different treatment. All, however, contain four bedrooms. Several are equipped with cement-constructed food cellars leading off from the kitchen. One has in addition a huge storeroom. Save for the kitchens and attics oak floors were used throughout. Indoor amusements were not forgotten. Each house is equipped with an indoor aerial of three strands of wire concealed in the peak of the roof. In the event the prospective owner desires to erect an outdoor aerial the iron pipe imbedded in the wall is ready for attaching the ground wire.

Sockets for attaching the radio equipment are built in the baseboards in both the living and dining room so that the outfit may be moved from room to room.

Nothing was left to chance. A radio was attached to the sockets in each house with uniformly excellent results.

A hasty inspection of the houses probably would result in a premature criticism. A fault-finder would deplore the lack of a porch. But it is there—two of them, in fact. The entrances to the houses are really enclosed porches. The morning sun sends a flood of light through the numerous windows and winter blasts are met by the same means.

On summer nights when one desires to sit in the open there is a portico in the rear, the floor of which is formed by the roof of the garage below. A stone coping, capped with a concrete slab, furnishes necessary protection, for the portico is one story above the street level.

Each house has an individual garage which is reached from the interior of the house, but at parts differing in each dwelling due to difficulties of construction.

The laundry is in the basement with easy access to yards in the rear. Hot water is obtained by the use of either a small coal stove or a gas heater. The heating system is of the hot water variety. The coal bin is within a few feet of the furnace. Instead of shunting the coal down a cellar window, a special chute is provided in the front of each house of ample size and covered with a metal door.

The bath rooms are modern in every respect. Each

IN what appears at first to be an indominatable piece of ground, there often lies great potential of beauty and practicability. Plots of the sort described here can usually be picked up for a song and turned to lucrative ends. Mr. Cassels has set an example here for every builder to follow. He has developed a site that builders consistently overlook

THIS gives a general idea of the irregularities that had to be met. At right is seen the low office structure that later will serve for an apartment house foundation



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is tiled throughout; has built-in bathtub and shower.

While the areas of the rooms in the various houses are necessarily dependent upon the amount of space available, they are all uniformly large. In the two central houses the living rooms will average about 16x 12 feet, the bed rooms from 10x11 feet to 14x12 feet. After the plans were drawn, bedrooms were added in the attic of several of the houses.

Dining rooms and kitchens are also large, the former averaging about 15 feet square and the latter about the same, save that the breakfast alcoves have been added in several of the houses. These cut off areas of about 7 feet square from the kitchens. Ample room, however, is still left for large wall dressers and other furniture necessary to the well-appointed kitchen. The bath rooms are compact, providing just sufficient room for comfort. Closets are disposed amply throughout.

A glance at the general layout of this plot will best show how economies in construction were made. House A makes provision for a party wall dividing its garage with that of the house next door. B House and C House are, definitely, duplex residences. The terrain of the slope at this point made possible a somewhat conservative design.

The house at the eastern end of the row presents a unique study in architecture. Originally conceived as an office for Mr. Cassel, it will eventually be used as a foundation for an apartment structure.

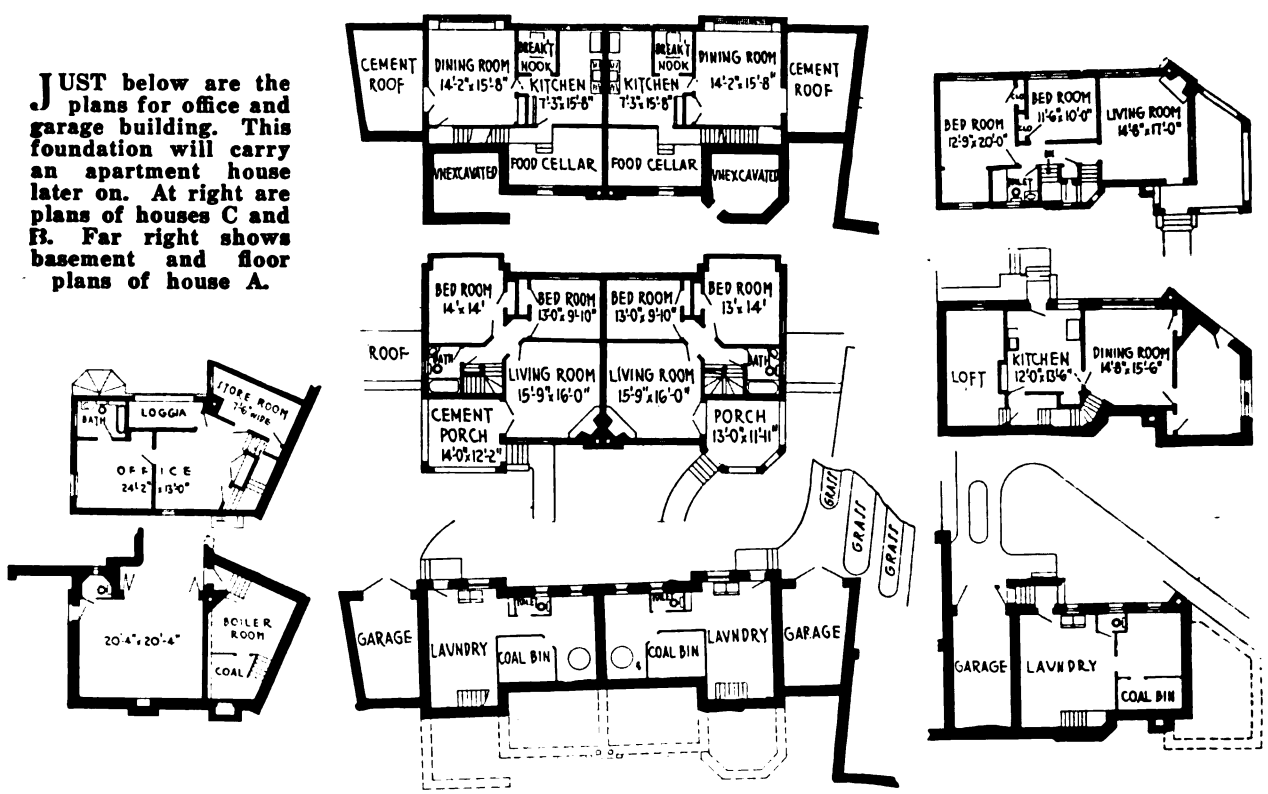
The front is represented as a stone wall with an old-fashioned entrance door and one descends immediately on entering. Two large rooms occupy the first floor which is below the Stenton Avenue level. Because of this arrangement one would expect these rooms to be dark and gloomy but a multitude of windows on the Logan street side flood the rooms with a cheery natural light. The rear of this house is furnished with a stone tower which adds a distinct touch to the architecture and increases what would otherwise have been a restricted floor space.

The foremost economy that Mr. Cassels effected lay, reasonably enough, in the excavating work. As any one of the illustrations will show, it was necessary only to dig into the bank a few feet and the result was a cellar as large as needed and not affected by dampness.

Then, when the buildings were completed the question of a fitting landscape arose. It arose for a moment, that is true, but one glance at the site settled the problem. Leave it as is! The natural irregularities were shown to their best advantage and the declivities and knolls that presented a construction problem were now the delight of the landscape architect.

The houses are not priced too high for this fine residential section of Philadelphia—held for $14,000 to $15,000.

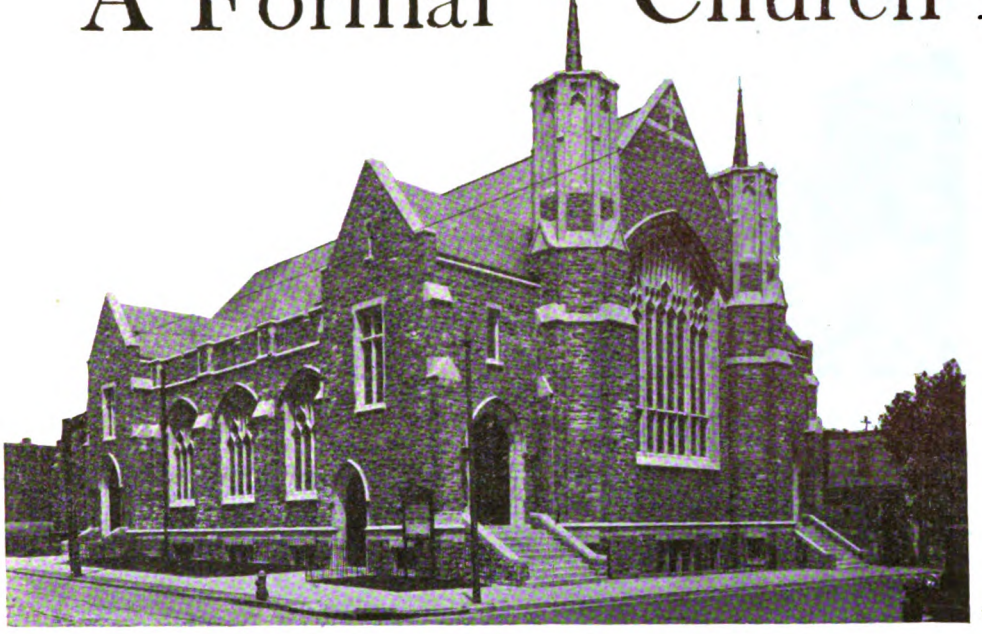
JUST below are the plans for office and garage building. This foundation will carry an apartment house later on. At right are plans of houses C and B. Far right shows basement and floor plans of house A.



Consult plot layout on second page preceding and you will see how well adapted each house is to its lot. Note porches on second floor plan of middle unit. First floor plan shows at extreme top

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A Formal Church Design

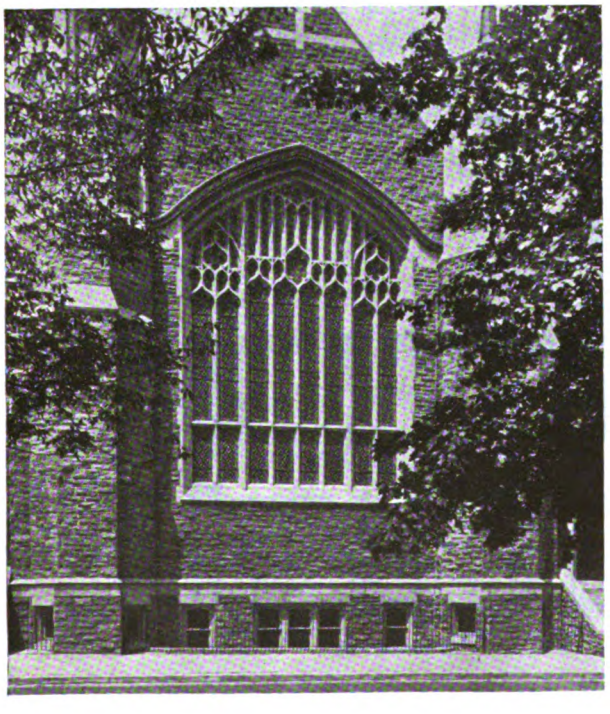


Calvin
Presbyterian Church
Philadelphia
Pa.

Architects
Heacock & Hokanson
Philadelphia

FROM the Village Church of Early American origin to the interesting little buildings of today there is a span of years that has witnessed many changes in our own architecture. At first, prejudice hindered the progress toward more beautiful church building. A general feeling was extant that a house of worship must adhere to those same rigid characteristics that marked religion itself.

That spirit is now dissipated and every congregation has come to realize the importance of an inviting exterior and an impressive interior in church design. Religion is bidding for wider acceptance and every new church building reflects this trend. Of the formal type so popular in the East and Middle West we find here a fine example.

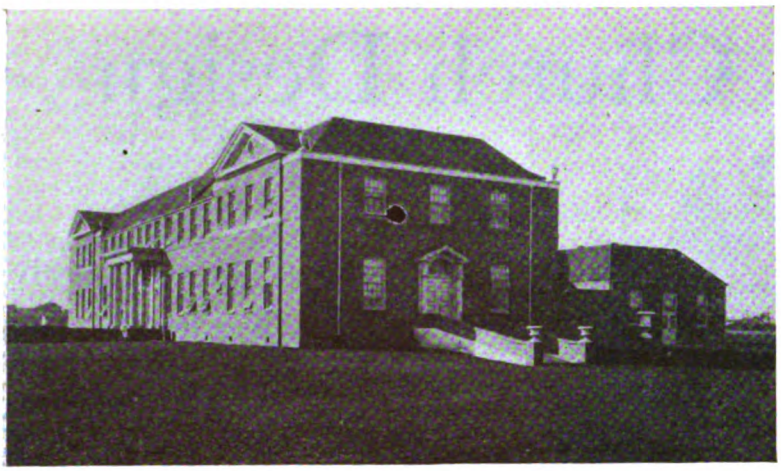




The stained glass window shown is the one that embellishes the front facade. It is a simple presentation of fine workmanship and eminently fitting for this edifice. The interior has its white walls accented by brown open beamwork above. This pleasant contrast does not detract in the least from dignity. The mode of recessing choir stalls is good.

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A Pleasant Institution for the Blind



Showing ramps leading into Administration Building

THE State of Oregon has elected that those of its citizens who have lost their sight, may find pleasure in comfortable and perfectly adapted surroundings. Fine public buildings are a credit to any state, but Oregon has made a particularly commendable stride in providing for its blind a home as splendid as may be found throughout the country.

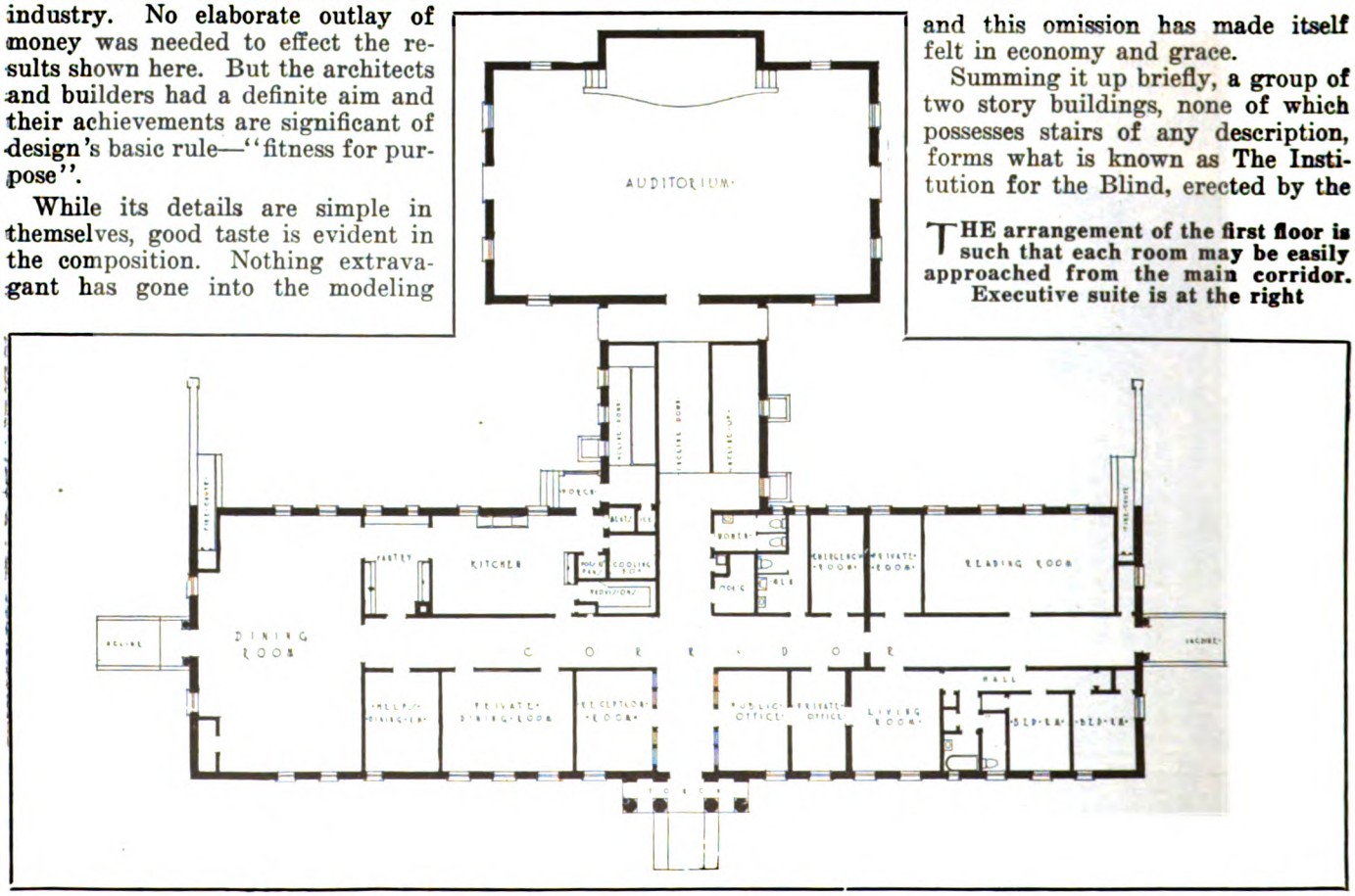
Devoid of the "institutional" atmosphere that is the unhappy history of another generation, this graceful group of buildings emanates an air of contentment and of industry. No elaborate outlay of money was needed to effect the results shown here. But the architects and builders had a definite aim and their achievements are significant of design's basic rule—"fitness for purpose".

While its details are simple in themselves, good taste is evident in the composition. Nothing extravagant has gone into the modeling and this omission has made itself felt in economy and grace.



The Administration Building houses community and dining room together with dormitories for the women. Exterior shows finely balanced design, authentically Georgian in thought and detail

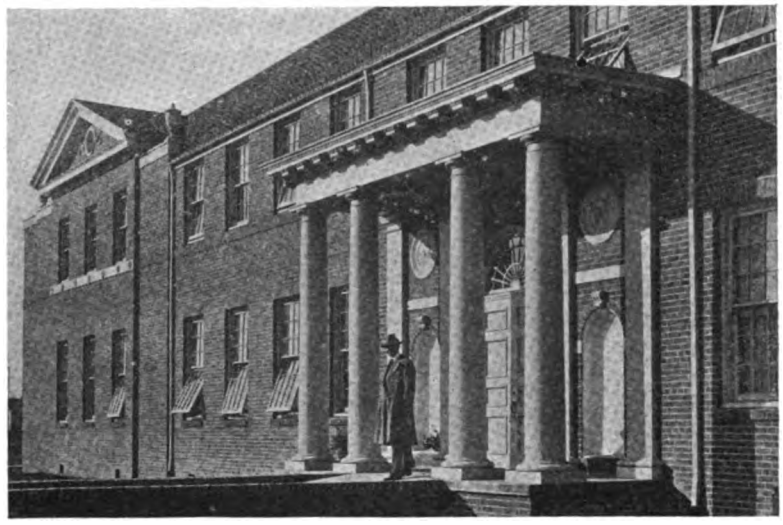
Summing it up briefly, a group of two story buildings, none of which possesses stairs of any description, forms what is known as The Institution for the Blind, erected by the



THE arrangement of the first floor is such that each room may be easily approached from the main corridor. Executive suite is at the right

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THIS is the Oregon Institution for the Blind at Portland; buildings with inclined ramps, fire escape chutes and specially guarded corners. Naomi Swett tells the story of its inordinately low cost construction. Houghtaling and Dougan were the architects and Hansen, Hammond Co., builders, all of Portland. Their work is fine indeed.



An entrance detail of pure Georgian Architecture

State of Oregon in Portland. The group is composed of four separate units as follows: The Administration Building, which on the second floor provides bedrooms for women, the Men's Building, the Industrial Building and the Power Plant. The entire group of buildings, with exterior surfaces of select common brick, was erected at a total cost of $142,000, making the expenditure per cubic foot but 18c, and establishing a record in building economy for buildings of this type.

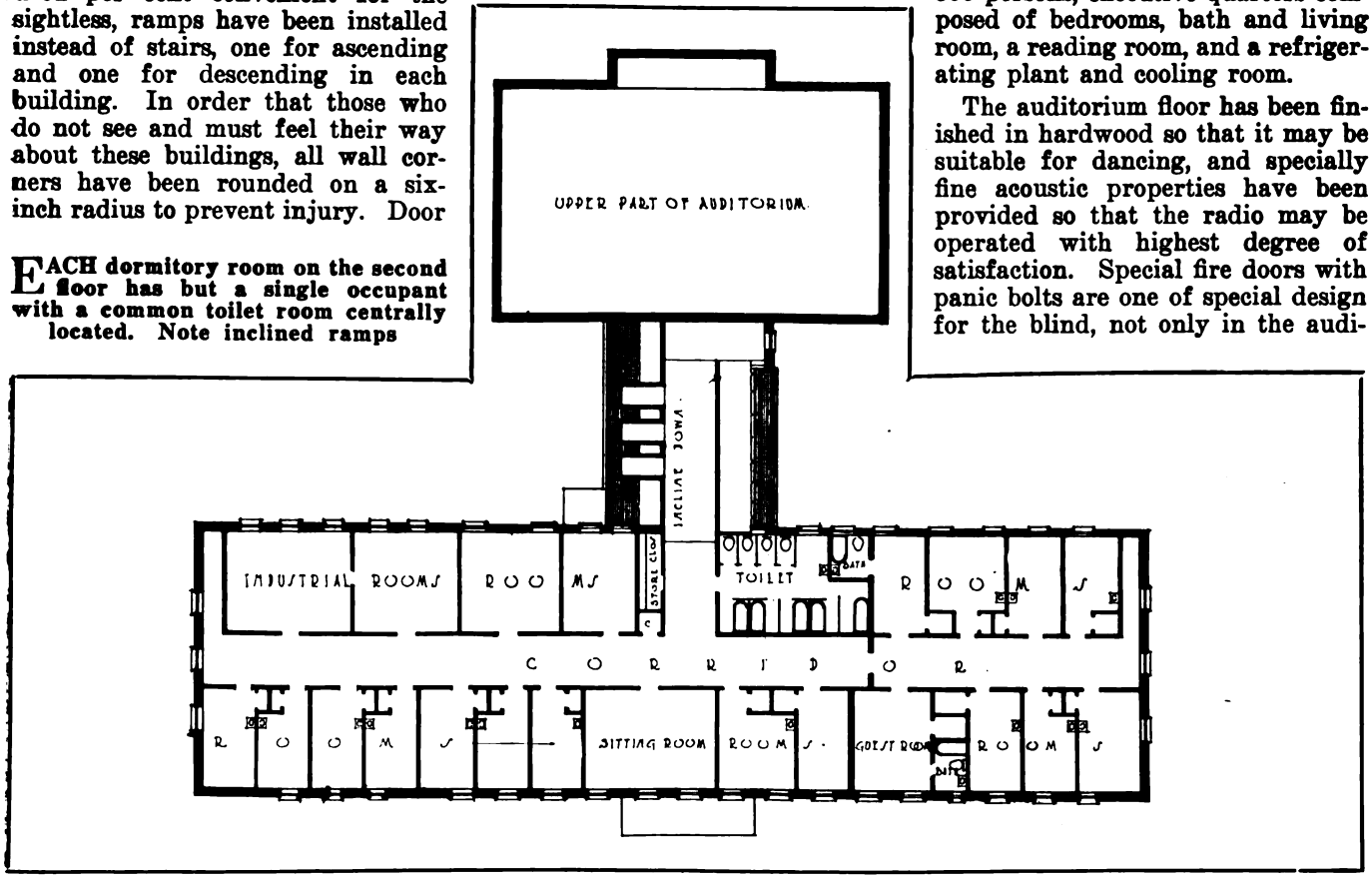
To make the buildings one hundred per cent convenient for the sightless, ramps have been installed instead of stairs, one for ascending and one for descending in each building. In order that those who do not see and must feel their way about these buildings, all wall corners have been rounded on a six-inch radius to prevent injury. Door casings, with their sharp edges have been entirely obliviated and all doorways finished instead with bull nose plaster. These details were easily included when original plans were being made and now they are important features in this comfortable home.

Only a very narrow baseboard has been provided around the rooms and corridors, just wide enough for cleanliness. Of exceptional interest is the method of insuring safety in case of fire, chutes having been provided instead of regulation metal fire escapes.

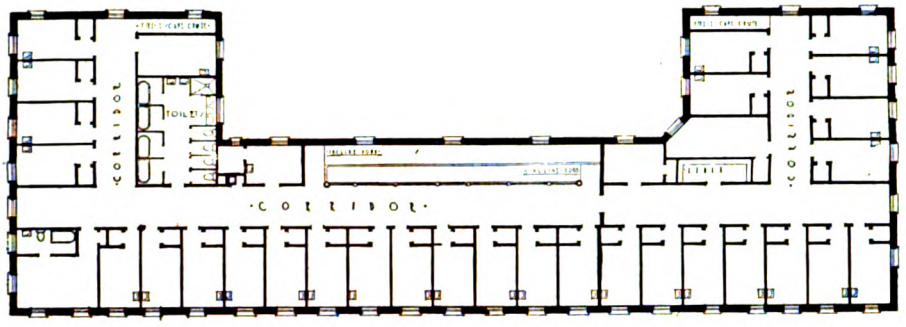
Of Georgian architecture, each building is more or less identical in appearance with the rest. The Administration Building, which has a frontage of 152 feet and a depth of 44 feet, contains on its first floor a dining room with seating capacity of sixty, two private dining rooms for executives and help, an auditorium with a seating capacity of 300 persons, executive quarters composed of bedrooms, bath and living room, a reading room, and a refrigerating plant and cooling room.

The auditorium floor has been finished in hardwood so that it may be suitable for dancing, and specially fine acoustic properties have been provided so that the radio may be operated with highest degree of satisfaction. Special fire doors with panic bolts are one of special design for the blind, not only in the audi-

EACH dormitory room on the second floor has but a single occupant with a common toilet room centrally located. Note inclined ramps



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SECOND floor of Men's Dormitory has thirty private rooms. Each has its own lavatory while at end of corridor is a common toilet room. Fire escape chutes are found at ends of lateral corridors.

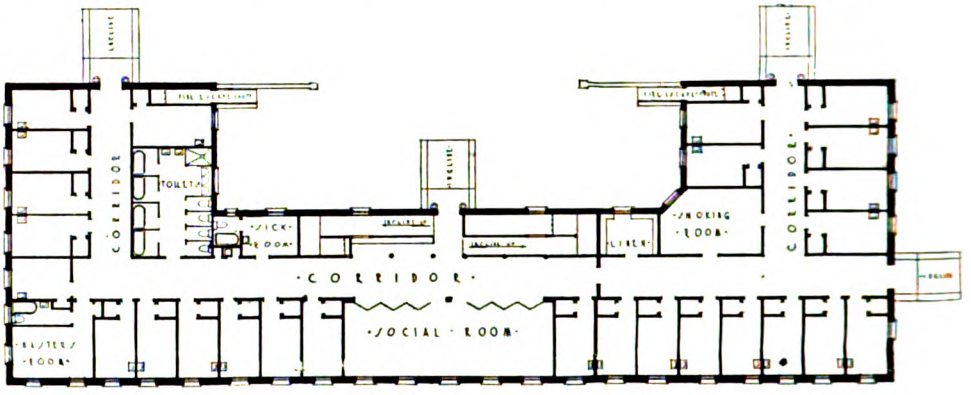
FIRST floor has twenty-four more private rooms and its own toilet facilities. A sick room, smoking room and a social room are provided in addition. As will be seen, the fire escape chutes terminate in the court, this latter is also reached by a ramp

torium but throughout the entire group of buildings.

The second floor of the Administration Building has eighteen bedrooms for women, each with wash stand and clothes closet and furnished to accommodate a single occupant. A general sitting room, an industrial room and sewing room, a guest room with private bath, and special room with four toilets and five baths are features of the women's dormitory. Here, as in all of the other units, chutes have been provided as means of escape from fire. The Administration Building is the only one of the group which has a basement, and here, in a space with dimensions of 24x40 feet, a provision and storeroom and a small room for an ice machine have been provided.

The Men's Building, also two stories in height, has on the main floor a social room, a smoking room, 25 bedrooms, each with washbowl and clothes closet, private rooms for teachers, and executive's suite with living room, bedroom and bath. On the second floor are 33 bedrooms with washstands and closets, and four bathtubs, toilets and showers. A paved court has been provided on the north side of the building where the men may sit out of doors on sunny days.

In the Industrial Building is a broom shop and weaving room, size 100x32 feet, and a storage room size





IN case of fire every occupant of this Institution may escape on this chute. There can be no panic and crowding on stairs for should the ramps prove too slow, two chutes like this offer further safety assurance

20x32 feet, where broom corn shipped in from the middle West is stored. A room in the Power Plant building originally designed as a laundry is now used as a work shop where chair caning is done. In the boiler room are two huge oil burners which supply steam heat for the entire group of buildings. Fuel is stored in a small room adjoining.

Simmonds metal furniture has been used throughout the bedrooms in both men's and women's dormitories, where a single occupant dwells in each room. A Fox sprinkler and heating system is in use. All finish hardware is of Russel and Irwin manufacture while MacKinney Manufacturing Co. butts were used. Patent reversible sash made by the Kawneer Company of Niles, Mich., was used throughout the entire group of buildings.

The builders realized that while economy was important, a building of this type did not permit the use of second rate materials. They purchased judiciously but not too cheaply and built a substantial insitution.



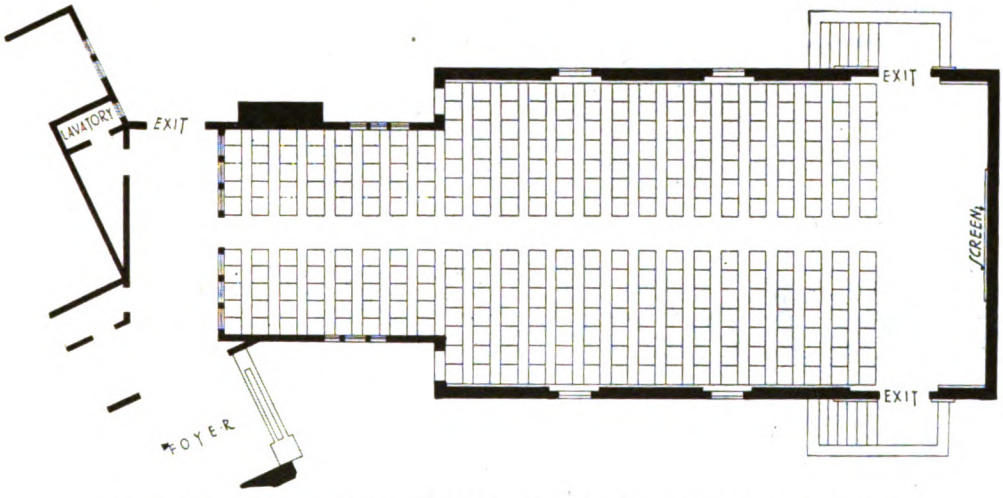
THE Men's Dormitory parallels closely the Administration Building. A court within the U-shaped plan is seen, providing a pleasant, sunny place for recreation. The extreme simplicity of the building is shown with pedimental details of excellent proportions

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Ye Towne Theatre at Scarsdale, N.Y.

Walter Pleuthner
Architect



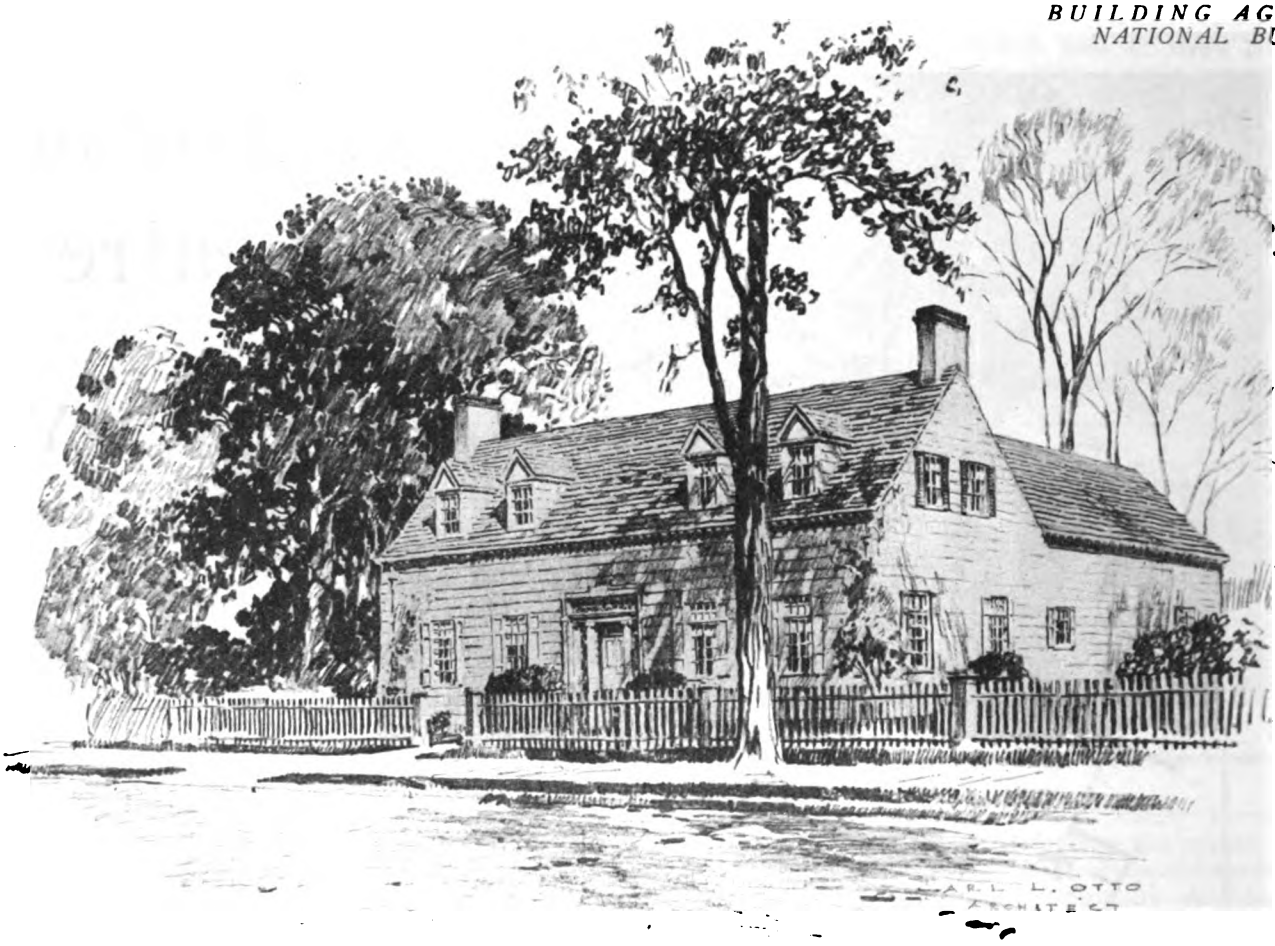
Floor plan of the Scarsdale Theatre. In the upper corner is shown the entrance to the foyer. In the lower corner is shown the exit to street

THE theatre here shown is a gem nestling in the corner of two winding roads in one of the most picturesque sections of the state of New York. It has an Old World appearance and the motorist in passing through remarks on the similarity of the locality to an old English village.

There is a small tower on the roof in which a light appears on nights when pictures are to be shown. The interior has exposed beams and ceiling of dark oak. The walls are tinted in a warm tone. There are side lights of artistic and very simple design on the wall panels between the small paned windows.



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Paris to Learn
HOW AMERICANS LIVE

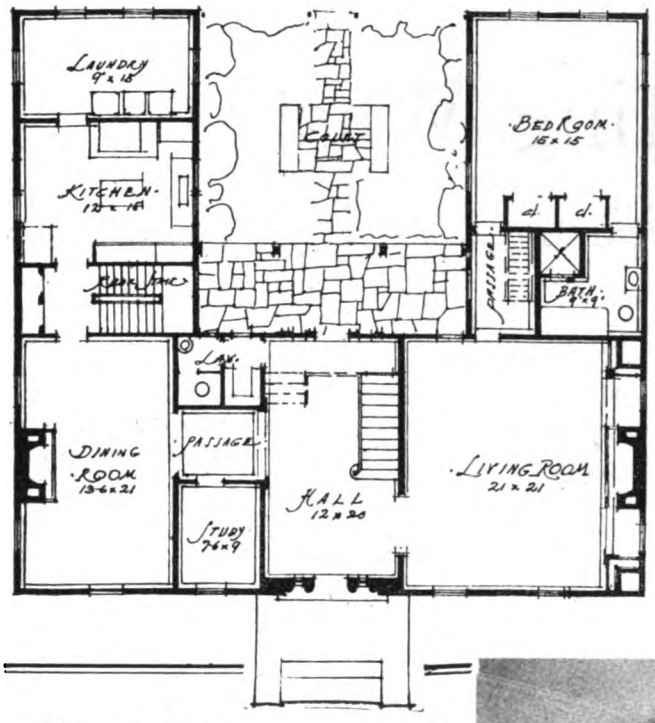
TO impress the French with the idea that all Americans are not millionaires, but rather moderately well-to-do, comfort loving citizens, a typical American home will be shown them as reflective of our ultimate wish in home design. This house, complete in 10 rooms, is now on its way to Paris where it will be erected in February, 1926, at the Exhibition of Household Appliances and Labor Saving Devices held under the Auspices of the Department of Public Instruction in France.

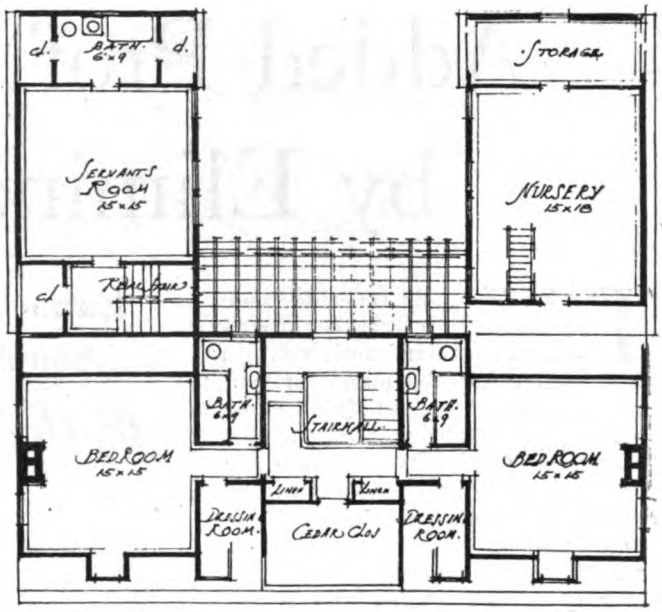
Until very recently the residence was on display in Brooklyn, N. Y. When it had been open for five weeks, it was dismantled and crated, and is now on its mission of education in American ways of living.



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First floor harbors a pleasing little flagged court. On one side is a bedroom; on other, kitchen and laundry





Two bedrooms, with dressing rooms and bath, a nursery and a servant's room with bath, leave ample room on the second floor for large cedar storage chest

SO that American manufacturers may prepare an audience in France for the future promotion of their products, this delightful New England Colonial home is on its way to Paris. There, it will be uncrated and re-erected. Illustrated here are living room, dining room and bedroom, fine examples of pure American interiors. Pieces of furniture are modern reproductions of early craftsmanship.





After it has been on exhibition in Paris, it will again be dismantled and for a third time re-erected,—this time on its final foundation. The owner will be some deserving French family to be designated by the French Republic.

The architecture is pure Colonial. Four dormer windows adorn the front, while end gables are flanked with two well proportioned chimneys. Exterior is covered with shingles and the doorway is an accurate interpretation of Colonial design. Inside the home the first view is of a spacious entrance hall with a large living room opening on one side and dining room at the other. A study opens into the dining room, and from there access is had to the-

(*Please turn to page* 122)

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Added Profits in Building by Eliminating Waste

Extracts from the Annual Report

By Herbert Hoover
Secretary of Commerce

THEORETICALLY, if the construction industries could concentrate their activities in times of slackening demand for consumable goods, we might stabilize our entire business fabric. Although this theoretical possibility of economic control is not practically feasible, much can be contributed through the stimulation of public works—Federal, State and municipal—and of other types of building and repair work so as to strengthen employment in times when other trades are slack. The development of better statistics on construction has, furthermore, made it possible to keep the volume of construction within reasonable limits at times of peak activity in general business.

Major wastes in the industry arise from:—

1. The seasonal character of the industry.
2. Insufficient standards as to grades, quality and business documentation.
3. Unnecessary or uneconomical variety in dimensions of building materials.
4. The confused state of municipal buildling regulations and lack of "zoning" in cities.
5. Lack of adequate statistics as to volume and character of construction, building costs, production, stocks, consumption of building materials, etc.
6. Uneconomical purchasing methods with particular reference to specifications and true requirements of consumers.

The seasonal character of the industry is undergoing wonderful changes, due to an active campaign to overcome the inertia bred of habit. This resulted in activity on operations throughout the country about one-third greater during the three winter months of 1924 than in previous years.

Large building operations in the past usually have meant rapidly mounting costs of construction. In this case, however, there was greater equalization of building activity during the 12 months. The result was an enormous construction program, more than six thousand millions of dollars, the highest in our history, executed with no marked labor shortage or serious pressure upon the building material, manufacturing or transportation industries. The prices of most building materials, in fact, actually decreased and wages rose.

THANKS to the elimination of waste and other contributing factors the increased wages did not increase general prices. Taking the general level of wages and wholesale prices in 1913 as equal to 100, wages in 1920 were 199 and at the end of 1924 were 228. Wholesale prices on the contrary dropped from 226 in 1920 to 150 in 1924. The benefit to labor is seen quite readily.

Great Britain, with more than one million unemployed, many of whom receive a weekly Government dole, shows a great reduction in the purchasing power of labor. In 1920, in that unhappy country, the general level of wages stood at 230 and wholesale prices at 226. In 1924 wages stood at 170 and wholesale prices at 174. The study to eliminate waste in industry has improved management in the United States, with a consequent actual increase in purchasing power.

The study of the question of standards and simplified practice has resulted in much benefit. More than 60 per cent of varieties in lumber have been eliminated; one standard size of brick has supplanted 44 sizes; there are 19 types and sizes of structural building tile instead of 36; there are 11 cross-sectional sizes of reinforcing bars instead of 40; 24 sizes and varieties of metal lath instead of 125; 384 types and sizes of shovels, spades and scoops instead of 4,460 previously made.

The list above is not complete but sufficient has been shown to indicate the importance of the work. The cutting down of types and varieties makes manufacturing less of a gamble and enables dealers to carry better stocks. It saves all along the line, from design to completion of work.

The committee on building and plumbing codes and zoning ordinances has been instrumental in revising methods of work in every state. The result has been greater uniformity in design and more economical utilization of materials. The zoning ordinances are helping to safeguard residence districts from wanton intrusion by uses of land which are best grouped apart from homes.

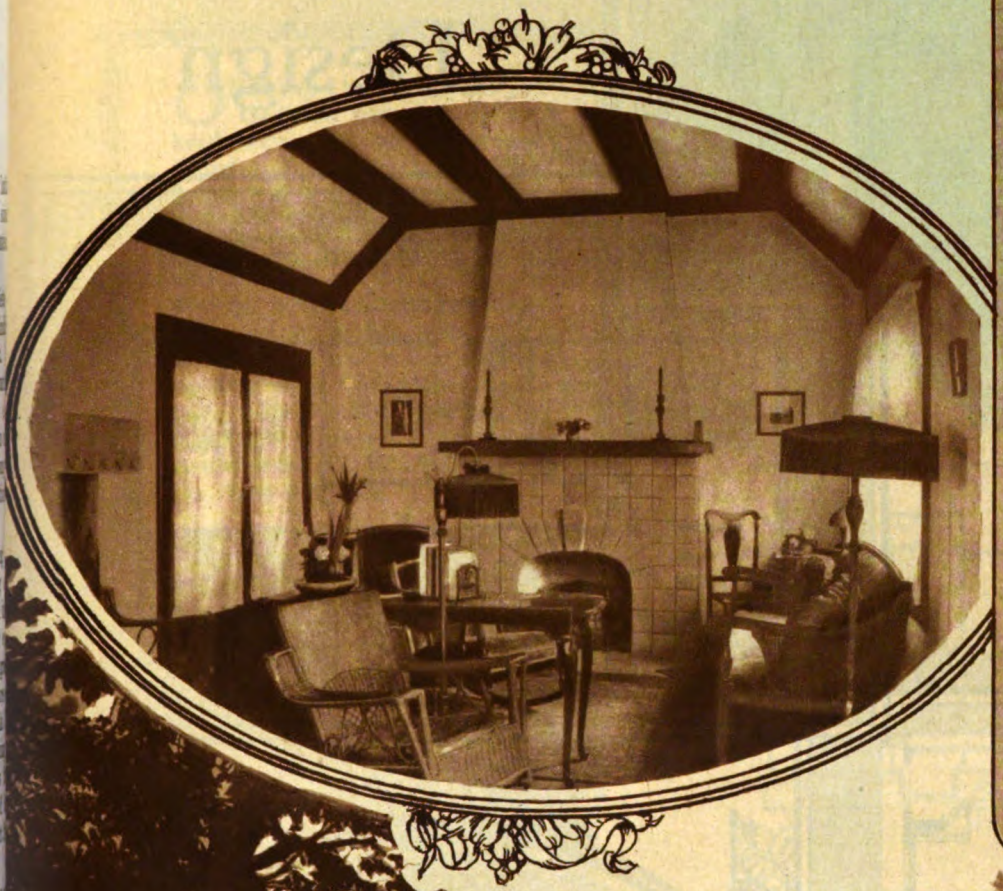
Reports indicate that zoning ordinances have been helpful in cities throughout the country in avoiding the blighting of districts and the unnecessary scrapping of buildings and costly public utilities that are still serviceable. The razing of a single block of dwellings and the scrapping of utility connections unsuited for altered occupancy usually involved a destruction of $100,000 or more worth of property, depending on the number and character of houses. where the scale of such operations is reduced by a good zoning ordinance the annual savings, even in a city of moderate size, are very considerable. Much remains to be done.

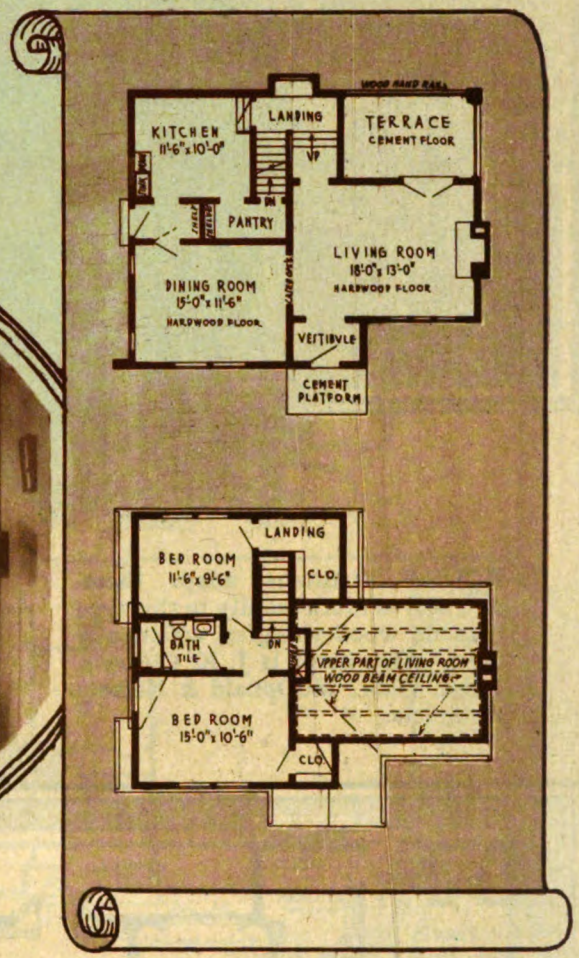
IN the active work done for a number of years past to eliminate waste in industry the construction industries have benefited fully as much as all the other major industries. The product of practically every industry enters in some way into some operation of each of the construction industries. One might be pardoned for believing that after all the builder is the greatest recipient of benefit from the work done to modernize industry in general.

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Radiant in Plain Stucco

THE cost of this simple little home is extremely moderate. The thought is English, carried out with little ornamentation. Architect: H. McClorey, Cincinnati.





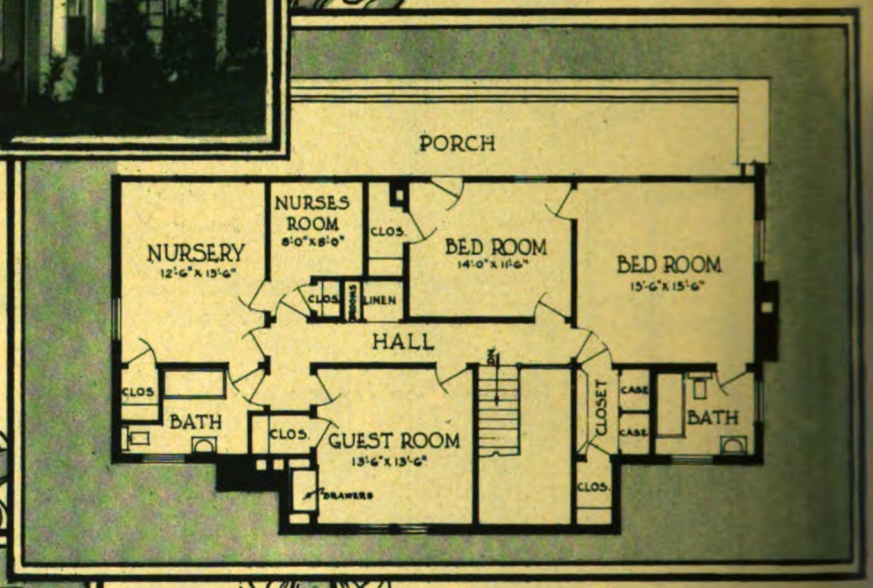


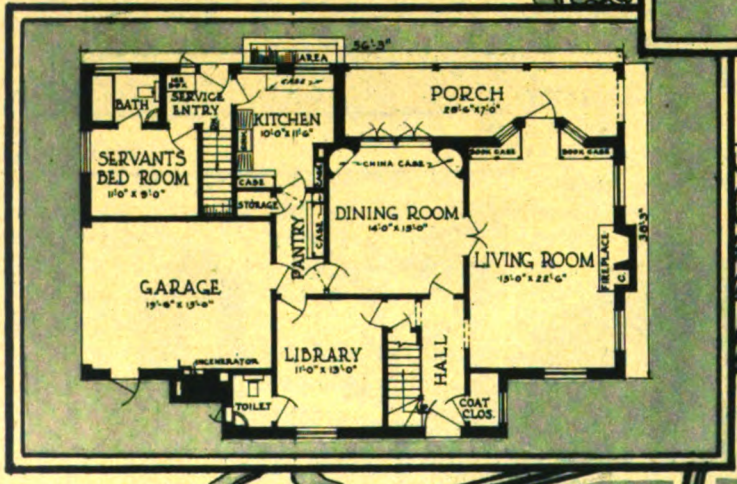
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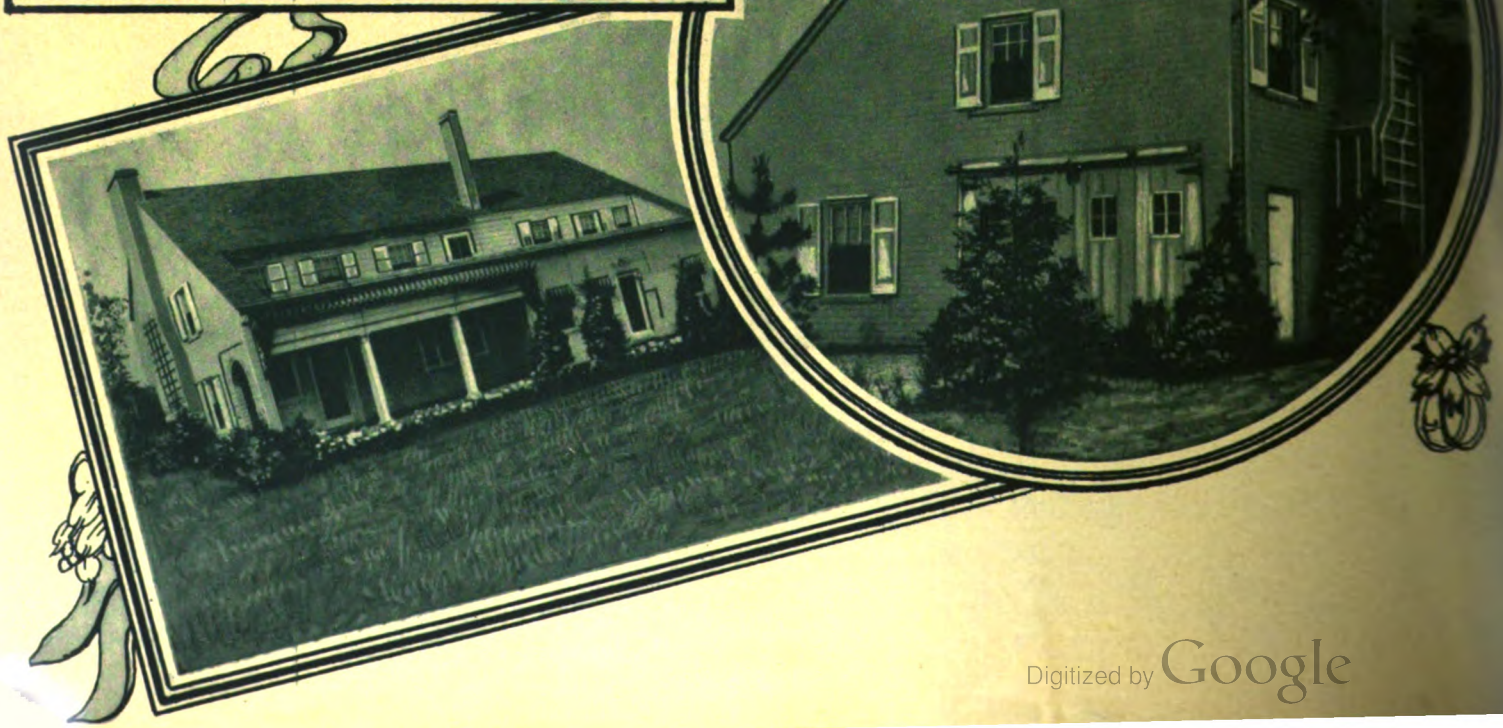
Shingles Enrich Design



FEW mediums adapt themselves more readily to this type than do wood shingles, artistically used. This home is J. K. Cleary's, Tulsa, Okla., McDonald & Nelson, architects.



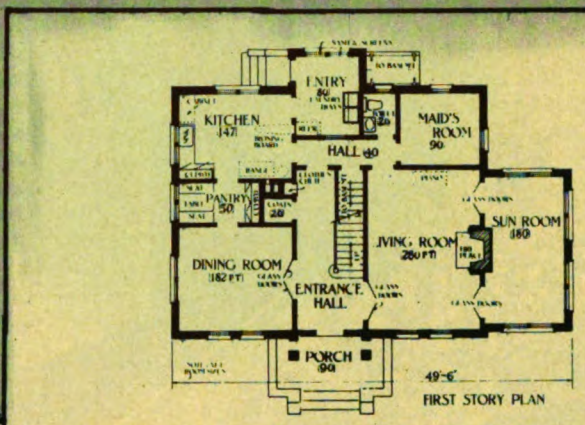




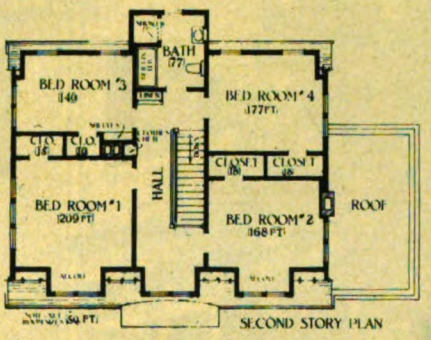
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Brick Finds Favor In This Dutch Colonial

ONE need not seek the pretentious mansion to find brilliancy and good design combined. The Dutch Colonial, found wherever fine homes are built, presents those rich characteristics so valued in the small home. This design, bedecked with colorful awnings, does not want for personality. In every respect it is a creation worthy of a competent architect. Interior is marked by spacious closet provision. Architects: E. W. Stillwell & Co., Los Angeles.



FIRST STORY PLAN

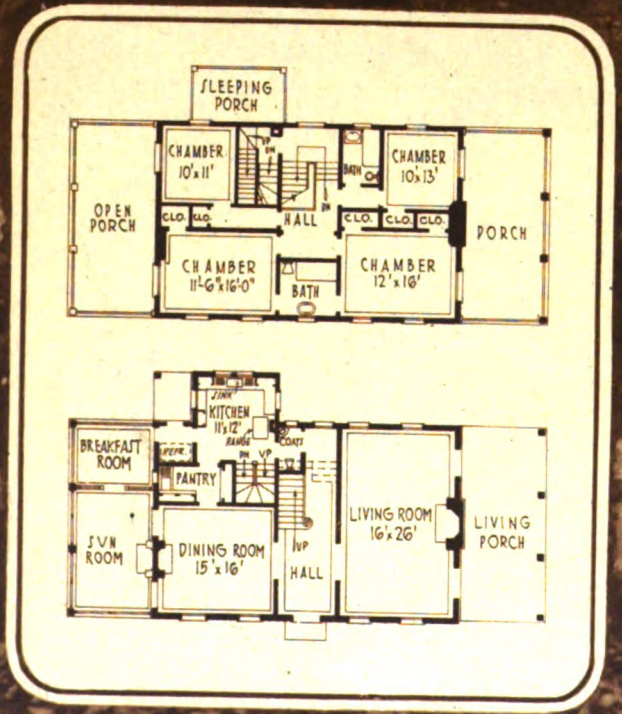


SECOND STORY PLAN

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The Simplicity *of* Wood

OVERLOOKING the Hudson River, this New England Colonial commands a view as beautiful as the setting we see here. The house itself, on the estate of E. P. Schnell, Riverdale, N. Y., has incorporated modern adaptations. Yet the interpretation loses nothing by these variations. Plans feature a double deck enclosed porch and a sleeping porch on the rear. Architect Dwight James Baum of Riverdale.



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THE EDITORIAL PAGE

The Close of a Good Year

DECEMBER brings to a close the year of 1925 and to the building industry it was a good year—yes, a very good year. What the total figures will amount to we will learn when all the data are collected at the end of the year, but we do know that it will exceed by far the year 1924, which was hailed as a "boom" year of the building industry.

What 1926 will have in store for us is, of course, unknown, but from all signs it will be a good year as indicated in the figures we published in our November issue on the Probable 1926 construction.

Everyone engaged in the building industry can be thankful that they are engaged in such a worth while occupation and one that has been so good to them.

Best Selling Homes in America

THIS campaign is now closed—it will take considerable time to judge all entrants, but we expect to announce the winners in our March, 1926, issue.

A Service to Building

IT will interest many of our readers to know that our articles in the October issue on the Building Shortage and our November issue on the Probable 1926 Construction, have attracted wide attention throughout the country and the articles have been reprinted in many hundreds of papers.

Better Homes Week

TO interest the public in better built homes, the week of April 25th to May 1st, 1926, has been designated as "Better Homes Week" and it is urged upon every community to stage a demonstration featuring a well built home.

An interesting booklet on how to organize the 1926 campaign has just been issued by "Better Homes In America", 1653 Pennsylvania Avenue, Washington, D. C. It sells for 15 cents a copy.

This is an educational organization of which the Hon. Herbert Hoover is President of the Board of Directors. Its object is to educate the public to what is best in homes of moderate price, both construction and furnishings.

Builders' Associations

WHAT are *you* doing to further the work of your local building association? It is not enough that you simply pay dues but you should get in and help the officers in their work. Serve on some of the committees and help the industry. You will be helping your own best interests by co-operating to the fullest measure with your organization.

Stabilizing Building

HOW often do we see discredit come to the entire local building industry because some inexperienced and irresponsible so-called contractor bids to do a job at a low price and then is financially unable to carry the contract to completion.

The Joint Conference on Construction Practices of the Associated General Contractors of America are doing what they can to correct this evil and are advising the public as follows:

PUBLIC OFFICIALS! Don't let a contract unless you know that the successful bidder has the resources to complete it. Don't let a contract at a price below an intelligent estimate of cost plus a reasonable profit.

SURETY COMPANIES! Don't bond a contractor unless you know he has the experience, financial resources and the physical equipment necessary to fulfill the contract.

EQUIPMENT MANUFACTURERS! Don't sell to irresponsible contractors, and take precautions not to overload any contractor with equipment which he does not need.

CONTRACTORS! Refrain from bidding on contracts which you do not have the equipment or resources to handle. Don't undertake any job at an unprofitable price.

Appreciating the Worker

THE plan of the New York Building Congress to recognize superior workmanship in the different building trades is bearing fruit. Recently certificates of craftsmanship were awarded different workmen on the big new telephone building and the Bible Institute Building. This method of rewarding workers for excellent work will benefit all in the industry.



OUR cover design typifies the glorious Christmas spirit. It is that of the entrance of the house shown here — the residences of Mr. Frank S. Smith at Oak Park, Ill. Photos by Eugene J. Hall.

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The beginning of the work in September with the intention of not disturbing the tenants. This intention was accomplished without any drawbacks

Adding Five Stories without Disturbing the Tenants during their Busiest Winter Shopping Season Is the Record of

A Winter Job Extraordinary

By P. W. Koeppen

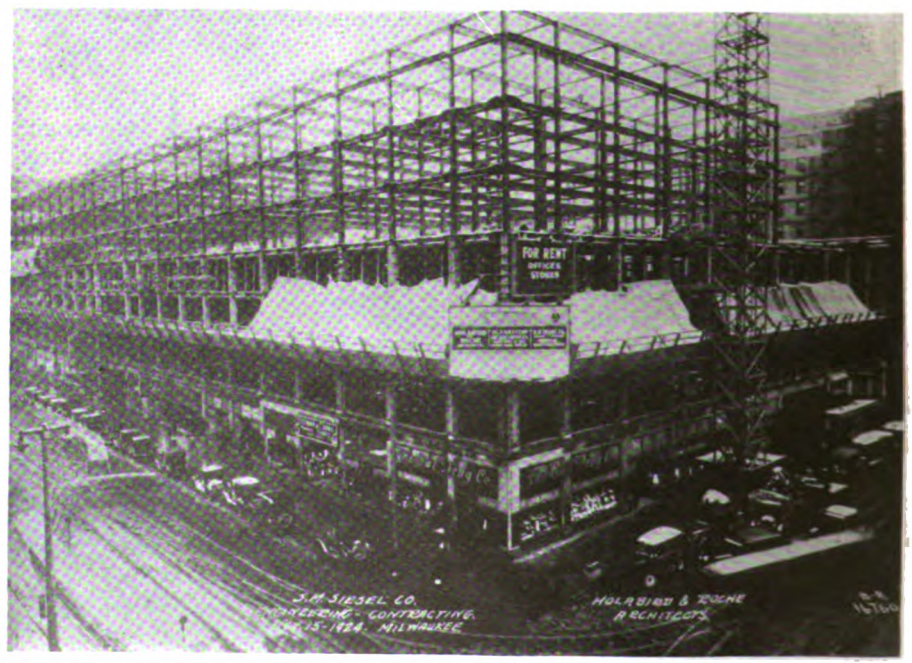
DURING the winter of 1924-25, the owners of the Plankinton Arcade in Milwaukee, Wis., added five stories to the building. It is commonplace to add several floors to a commercial building these days, but it is not an ordinary matter to do the work in the winter months. One reason why it was done may be that a systematic campaign has been carried on for several years to further winter work. In the present instance the contractors happened to choose the coldest winter Milwaukee has known in many years. During the month of December temperatures were recorded as low as 16 degrees below zero.

The plans were prepared ten years before by Holabird & Roche, architects, Chicago, Ill. A building of indeterminate height was provided for, two floors of which were then constructed. The foundations were made large enough to carry a quite large building and the columns to the roof of the second floor were of proportionate size and strength.

To further make it unnecessary to disturb tenants on the lower floors, at a time when more floors might be added, the roof was placed on framed steel resting on a flat slab that would serve as a third floor. Consequently, it was possible to attach column sections and proceed with the work without disturbing the tenants.

During the summer of 1924 it was decided to add five stories. The first illustration shows the state of affairs on September 15. Great care was taken to protect people using the sidewalks and business went on in the stores "as usual."

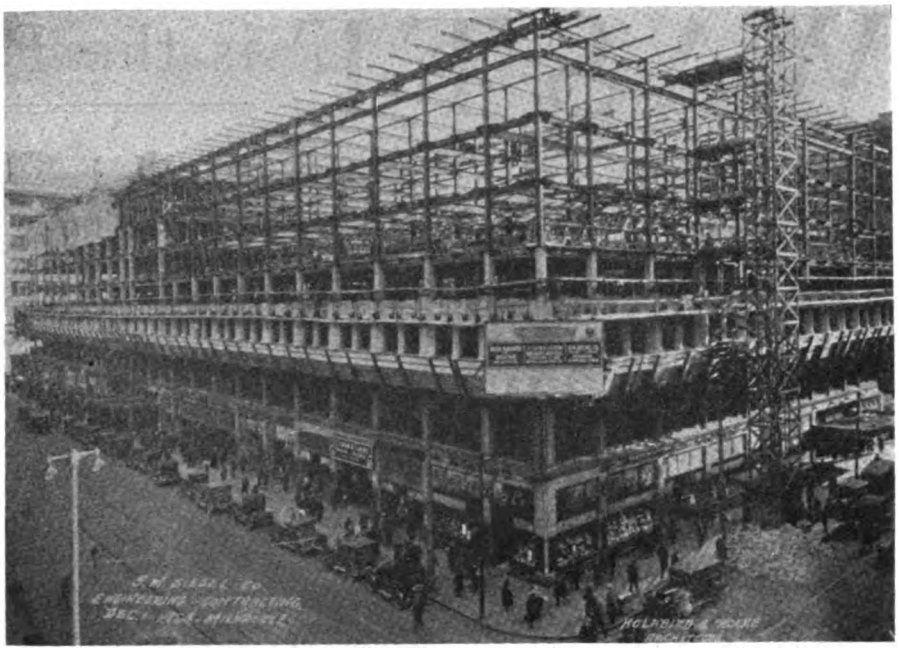
The building has a length of 422 feet and a width of 200 feet, with



Two months later. Steel work in place. Concrete being poured. Ground floor show windows displaying seasonable goods. Nothing happened to destroy show window interest

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Beginning of the Christmas sales. Stores filled. Brickwork placed on one story and scaffolds being raised to next story during pouring of floor



an exceptionally large center court. This made the area of concrete floor very small, compared with ground area, so a central concrete plant with tower and bins was found to be impracticable.

THE work was done by means of four double-edge towers, one at each outer corner of the building. Stock piles were eliminated by having the cement, sand and coarse aggregate delivered as required. All of the sand and coarse aggregate being washed before delivery they could be delivered immediately into the mixers. Simple, yet satisfactory, apparatus was installed for heating all sand and coarse aggregate. There was a mixer in the base of each tower.

A central boiler furnished warm mixing water for the concrete. On extremely cold days a steam line was run into the drum of each mixer, thus keeping it warm and slightly warming the concrete. This was a wise provision to hasten setting.

Tarpaulins were used to protect the concrete during the pouring and for a sufficient time afterwards to insure proper setting. In all cases salamanders were placed under the floor that was being poured and both stories were enclosed with tarpaulins. Each section as it was poured was carefully enclosed and kept at a proper temperature.

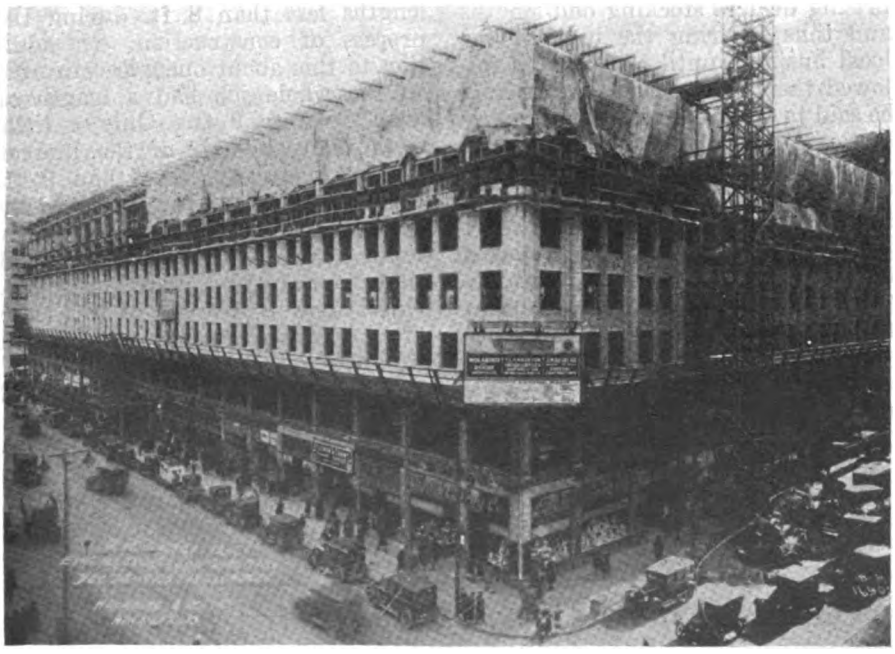
The extra precautions taken to insure good work added but a trifling sum. This was more than balanced by the reduction in cost of additional watchmen, extra cleaning, care of plant and other items of overhead cost that pile up when work is shut down in bad weather. The output per man was larger than it was during warm weather and materials were materially lower in price.

The illustrations show admirably how the work was carried on without disturbing the tenants on the two lower floors. This would have been remarkable if done during the summer. The fact that it was winter construction made it more notable.

An aggravating feature was the indifference of the people whose comfort was so well considered. Accustomed to seeing big work going on with protective arcades over the sidewalks no special interest was manifested because of the fact that the construction went on in severe winter weather. Work closes down in winter because contractors have acquired the habit, as was remarked in BUILDING AGE AND NATIONAL BUILDER in the November issue. The general public looks upon construction work as a commonplace thing possible of accomplishment in every month, regardless of what the temperature may be.

TO reduce weight, all the floors and roof are ribbed. The ribs are 5 inches thick and 25 inches on centers. The slabs are 2 inches thick. On the floors the ribs are 10 inches deep, making the total thickness 12 inches, and on the roof they are 8 inches deep, making the total thickness 10 inches. Milcor steel domes were used for forming the slabs and but 22,000 lineal feet of domes were used for the total area of 240,000 square feet of slabs. When the work was completed the domes were still in good condition.

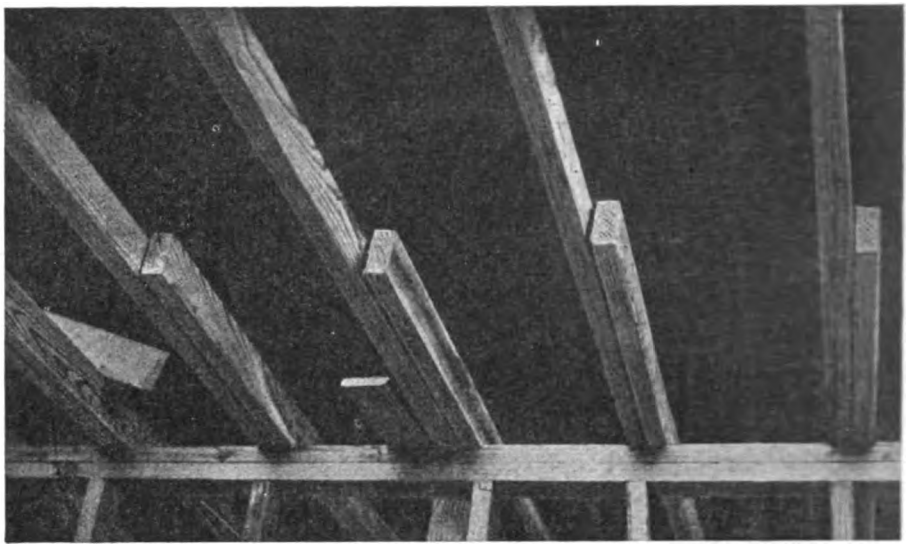
The work was done by the S. M. Seisel Company, Milwaukee, Wis., to whose courtesy the writer is indebted for the photographs from which the accompanying cuts were made.



Ten days before Christmas. Bricklayers three up and two to go. Christmas shopping active. Weather severe enough for complete enclosure of two final stories and roof

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WASTE is the Profit Absorber in the Building Industry



Twelve per cent of waste in these lapped joists. Lapping does not add strength unless the laps are well spiked.

WASTE is the most formidable foe of the contractor. In fact it is the most formidable foe of every industry, but we have there only the building industry to consider. In the studies made by the United States Government of waste in industry one recently issued with the title "Construction Uses of Short Lengths of Lumber" is of vital interest to our readers.

The Department of Commerce joined with the Central Committee on Lumber Standards in a survey to determine the practicability of buying short lengths of softwood yard lumber for use in the construction of small and medium sized houses of wood construction. This survey is a part of the program of the American Lumber Standards.

When this country was densely wooded and sparsely populated no attention was paid to economy in the production of lumber. Waste was assumed to be a perfectly natural consequence of the industry. Now the country is sparsely wooded and densely populated the men engaged in the lumber industry are making a serious study of waste. Because of waste the price of their product is rising. This gives other materials an advantage. The Government has taken an interest because of the economic side which affects living costs in general and the desirability of losing no opportunity to inculcate lessons in thrift.

A first move was to advocate the cutting and sale of odd lengths, making such lengths standard. In the early wasteful days standard lengths were adopted varying by two feet, the shortest length being 12 ft. Then at a later date 10 ft. lengths were introduced. No good reason exists for a continuance of this custom. There are many good reasons why standard lengths should vary by one foot instead of two feet.

To date there has been little evidence that lumber users object to buying odd-lengths. Whatever delay has occurred in making the custom standard has been due to dealers. Where there is little, or no dealer competition, it is difficult for contractors to get odd-lengths. Instances have been reported of enterprising dealers stocking odd-lengths and thus securing the bulk of the local business until competitors followed their lead. Odd-lengths may be said to be standard today in many sections of the country.

The next step is being taken. This time it is to educate carpenters, builders and contractors to use short lengths. Data and charts prepared by the National Lumber Manufacturers Association and presented at the May, 1925 Lumber Conference show that 5.3 per cent of the total softwood yard lumber produced is under 8 ft. in length and 6.6 per cent is from 8 ft. to 9 ft. The Association further reported that lengths less than 8 ft. can be purchased at an average reduction of about $6.00 per thousand for common lumber and about $12.50 for select lumber. These prices being f.o.b. mill.

A study was made of twenty houses, taking 46,842 pieces of lumber. This study shows that 10.90 per cent of the lumber is from 8 ft. to 9 ft. in length, both lengths being included. The lengths under 8 ft. amount to 32.70 per cent of all the lumber. The lengths over 9 ft. amount to 56.40 per cent of the total.

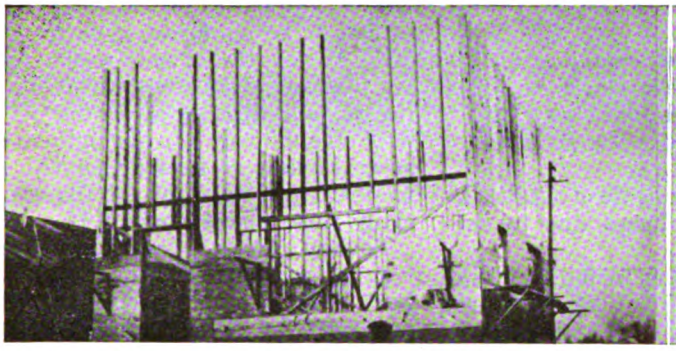
That is one-third of the lumber, all of which was delivered on the job in long lengths, was cut into lengths less than 8 ft. during the process of construction. In addition to this about one piece in nine on the whole job had a length of from 8 ft. to 9 ft. Only a little more than one-half of the lumber was in lengths greater than 9 ft.

Were all the lumber produced by the mills utilized by builders about 4 per cent of the total soft wood lumber production might be saved. This is now in lengths of less than 8 ft. Softwood flooring could be cut in multiples of 16 in., especially that under 8 ft., and end matching would be an advantage.

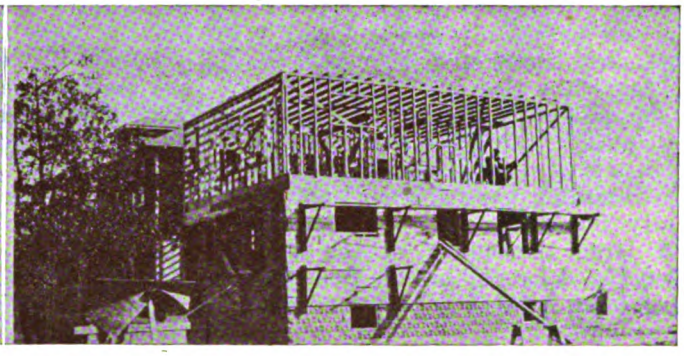
Joists and rafters are possible exceptions to extended use of short lengths. It is estimated, however, that a saving of from 6 to 8 per cent can be made in these items if odd-

Uncle Sam Says: Use Odd and Short-Length Lumber for Economy

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Balloon framing. Studs cut to length. Short sheathing between windows.



Balloon framing. Long sheathing and full length studs cut for openings.

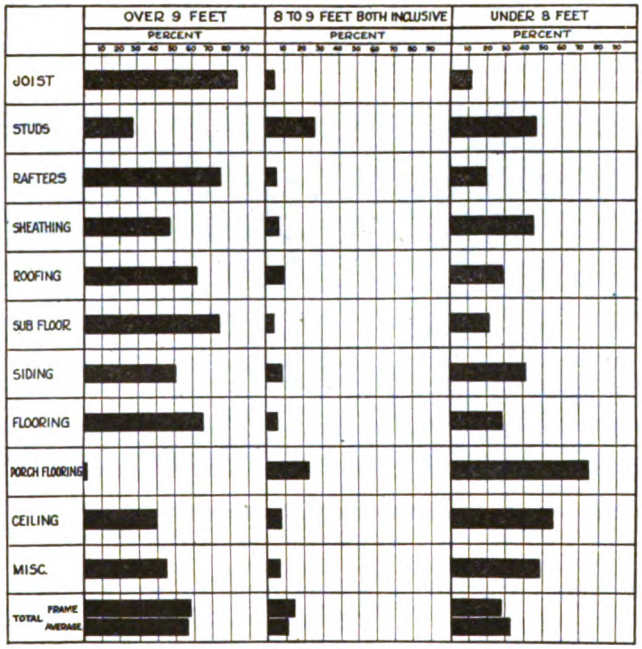
lengths are made standard.

It was found that 89 per cent of the lumber delivered to the job in lengths varying from 8 ft. to 22 ft. was cut into shorter lengths by the carpenters during the process of construction.

Experienced builders were found to have worked up their material very closely. What was left over was moved to the next job. Waste occurred with inexperienced builders as well as with carpenters who built only one house and had no place to use their left over.

It is feasible to purchase short lengths of lumber in every item, with the possible exception of joists and rafters. In some cases short lengths may be handled to excellent advantage. Joists and rafters are load carrying members with definite spans which are governed by the size and shape of the rooms and the building. Therefore until the furnishing of odd-lengths becomes standard everywhere it will not always be possible to make much use of short lengths.

In the case of rafters it is necessary to cut the ends off as no opportunity exists for lapping as in the case of joists. One house observed required rafters having a length of 16 ft. 6 in. These were cut from 18 ft. stock with a loss of 1.5 board feet per rafter, or 8.3 per cent. The use of 17 ft. lengths would have reduced this loss to 2.95 per cent, which would be a gain of 5.38 per cent. Broken roofs lend themselves readily to the use of odd-lengths and short-length lumber.



Construction Uses of Short Lengths of Lumber. Based on measurements of 46,842 pieces.

There was found to be considerable difference in the length of studding in the Eastern districts and the Mid-West. This was due to three causes.

(a) Ceilings were higher in the East.

(b) Roofs were plainer in the East, requiring less gable studs.

(c) Balloon framing was extensively used in the East, with two-story studs. The platform type construction was used in the Mid-West, using one-story studs.

Two builders wished to know why standard length studs are not made the same as are standard laths, window and door frames and other parts. They said that as studs are trimmed now at both ends, a step further should be made by trimming them to a standard length.

Lengths suggested for studs of standard length are 7 ft. 9 in., 8 ft. 3 in. and 8 ft. 6 in., this being a sufficient range to cover frame



Sheathing in 8-ft. lengths. Ceiling in 1-ft. 3-in. lengths. Both save longer lengths



Story-length studs, 7-ft. 11½-in long. Short length sheathing. Use both for real economy

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houses as usually constructed. If standard length studs were used, the height from floor to floor would be standard, thus allowing the use of standard stair framing. Better construction would also be secured.

Sheathing gave a great opportunity for a study of short-lengths. A large percentage of the short lengths delivered on the job were cut to go between window and door openings.

The use of short lengths on roofs is practical and practicable. It was observed that short lengths were more easily handled on roofs when the wind was blowing. They could be applied much quicker if cut to exact lengths in multiples of 2 ft., the rafters being spaced this distance. A small power rip-saw on the job should be very useful in working up short lengths of wide stuff for roofing.

Sub-flooring and sheathing generally come from the same pile. The sub-floor being laid on a surface with few openings will accommodate long lengths. It is usually laid before the sheathing so the left-over ends are readily worked into use as sheathing between wall openings. In one building 30 pieces of 1 in. x 8 in. x 16 in. were laid in one floor. There were also many pieces with lengths of 32 in. and 48 in.

The waste due to laying sub-floors 45 degrees to the joist was estimated by different builders to vary from 5 to 20 per cent. No one seemed to know how much extra to order, but the general rule was to "order plenty."

A careful lay-down of 8 in. sub-flooring on the plan of a selected house shows the following losses:—

Laid 90 deg. to joist, loss, 3.62 per cent.

Laid 72½ deg. to joist, loss, 3.62 per cent.

Laid 45 deg. to joist, loss, 8.40 per cent with butt joints.

Laid 45 deg. to joist, loss, 14.50 per cent with diagonal joints.

The above estimates do not take into consideration losses due to surfacing edges.

The reason for including 72½ deg. is that one builder in Gary, Indiana, laid sub-floor at this angle on about 300 houses for the Gary Tube Works. Using sub-floor in this manner required no more lumber than when laid at 90 deg. Inspectors stated that this angle gave all the advantages obtained in laying sub-floor at a 45 deg. angle and it was even more satisfactory.

Porch flooring showed the greatest percentage of short lengths used. There is only a small percentage of porch flooring and most of the short lengths were selected from flooring used in the interior. There is some objection to using butt lengths in porch flooring due to the liability of their retaining moisture, thus causing decay. It would seem to be inadvisable to purchase porch flooring in lengths of less than 8 ft., for most porches are about 8 ft. wide.

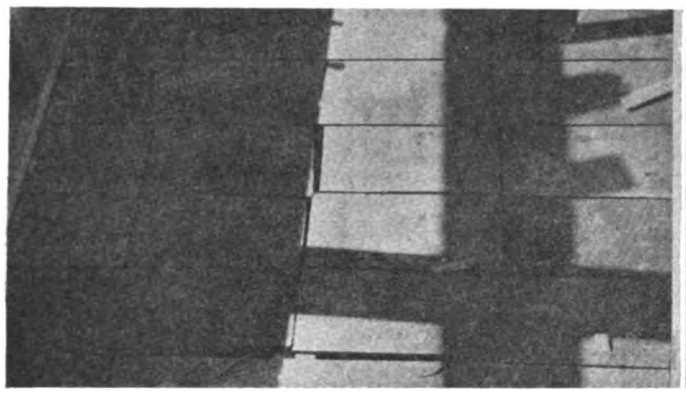
More short lengths were used in ceiling than in any other item. A large number are used over projecting eaves of buildings. On one house 400 pieces 15 in. long, were cut from 18 ft. lengths of Douglas Fir. The practice of cutting these short pieces was common with nearly every job. Many builders in Kansas City ran their ceiling on front porches across the long dimension to avoid unsightly butt joints. This, if done elsewhere, would promote the sale of more short ceiling.

Hardwood flooring is used in short lengths successfully and there seemed to be no objection to the use of short lengths of soft-wood flooring. Much of this soft-wood flooring is laid directly over the joist, without sub-floor. In the opinion of several builders flooring should be made in multiples of 16 in., especially those pieces under 8 ft.

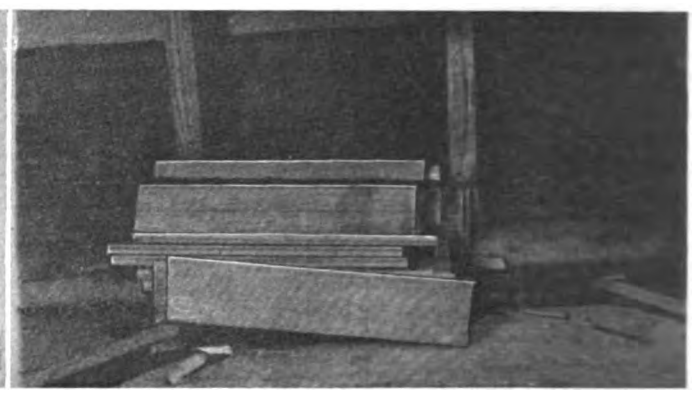
Several other uses for short lengths were mentioned in the report. Many would be thought of naturally by experienced builders with their attention directed to the avoidance of waste of material.

In the survey no inside trim, window or door frames, porch columns, stair trim or other mill-work or hard-wood floors were considered. It was observed that only two jobs used mill-made columns and that two builders made their own window and door frames. All cellar door and window frames were made on the job with one exception.

Mention was not made of the great value on all jobs of small power saws and other machines with motors of less than 1-hp. The report was directed to the economy which will be effected when lumber dealers stock the short-length and odd-length lumber the manufacturers stand ready to supply. Pressure on dealers by builders will bring this about. Short pieces are used on all jobs and even when short-length and odd-length pieces become common much of the necessary sawing, edging, jointing, and other mill operations required by builders should be done on the job, utilizing much lumber that is now wasted. The cost of such equipment is not great and the machines in many cases are as portable as ordinary tool boxes. Power sawing is cheaper than hand sawing and the work is much more accurate. Small machines should be used when possible.



On this one floor 30 pieces of 1x8x16-in. of sub-flooring were used. Cut from scrap.



This room was ceiled with 400 pieces, each 15-in. long, all cut by hand from 18-ft. stock.

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A Builder of *Better Bilt* Bungalows

This man's story, as told by Frank H. Williams, shows that a few but very important factors contribute to success. Mr. Barr's secret—Californians have faith in him.

JUST what are the most important things for the home builder to remember if he is to achieve an enduring success?

Here they are, according to H. D. Barr, of Santa Ana, California, builder of Barr's Better Built Bungalows, who has erected thirty-six homes in Santa Ana and vicinity during the past two years:

Secure a reputation for being a good builder and hold this reputation by continuing to do the best work possible. Pick out the places for construction which have the strongest appeal to the builder personally. Put up a number of homes in a group instead of simply isolated homes in different sections of the city. Confine the construction work as much as possible to one particular section. Get into the homes the things which make the greatest appeal to home buyers. Keep up with the times by adding new things from time to time. Undoubtedly it will be interesting to other builders in other sections of the country to learn how Mr. Barr puts into practice these things he preaches.

First, then, let us consider the way in which he has managed to secure the fine reputation he has for being a good builder and the way in which he holds this reputation. Mr. Barr, in showing interested folks through the homes he is constructing, points with particular pride to these things:

Twenty inch foundation. Solid backing for stucco work. Sixteen gauge wire for stucco. An average of 6,000 fasteners for the wire on each house. Fourteen inch floor joists. And special reinforced metal corners in all rooms which completely do away with plaster cracks.

These features, which are at the very foundation of good stucco construction, have made Mr. Barr's homes so satisfactory to buyers that his reputation for being a good builder has increased tremendously in recent months.

In addition to these particular features which Mr. Barr points to with such pride there are other interesting items in his homes that add to their desirability. For instance, all roofs are shingled with 5 to 2 clear shingles. Copper screens are used throughout and these are placed on galvanized frames. Sinks are tiled. Electric light fixtures are particularly fine; selected for harmony of design.

So much, then, for this first essential for home building success.

Now, for the second feature—that of picking out places for construction which have the strongest appeal to the builder personally.

"I pick out the locations that appeal to me personally," says Mr. Barr, "because I figure that what appeals to me will appeal to other people."

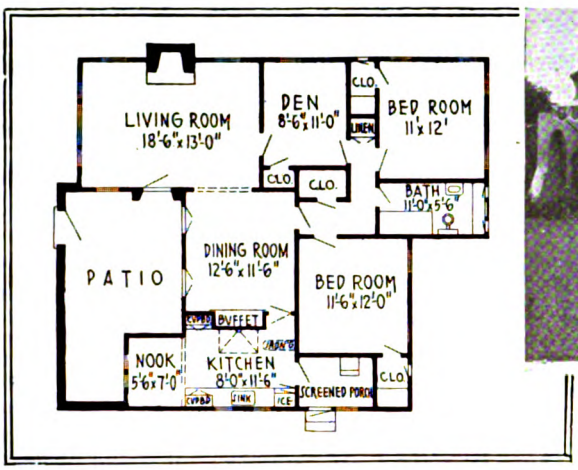
Practically all of Mr. Barr's home construction work has been in the south part of Santa Ana. He picked this section for these reasons: No railroad tracks between the section and down-town business district, no river to cross to get to the section, plenty of room for expansion, nearest to the beaches of any part of the city and plenty of sunshine.

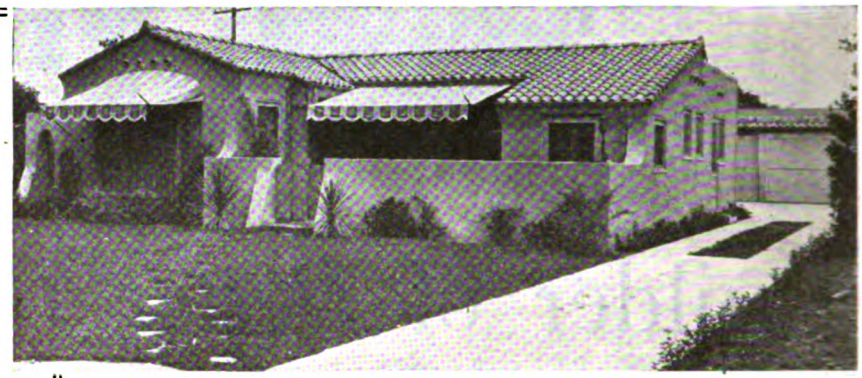
Mr. Barr's reasons for building in groups of four or five or more are very interesting. Where home con-



H. D. BARR'S loyal force of workmen have helped him greatly on the road to success. Here is a "gang" before one of the Better Bilt Bungalows. Left to right are: Leonard Cole, co-owner of Community Place tract at Orange, Calif.; Harry Barr himself; Arthur Lindahl; Jim Pollen; Charles McCandles; Russell McCandles; Lew Anderson; and at extreme right, U. J. Anderson, Superintendent of Construction and a big factor in this story.

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A little Spanish home that would do justice to any exclusive residential district. Entrance is had through patio showing at left of plan. Note den and breakfast nook accessibly arranged

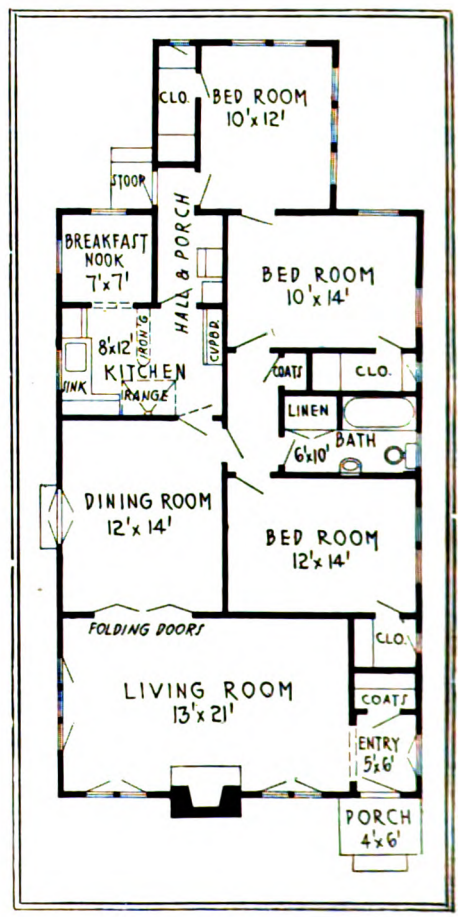
struction work is scattered about a city there is no mass impression on the public. The public, seeing only one home put up by the builder in a particular spot, gets the impression that, perhaps, the builder isn't putting up any more homes than the one. But where the public sees a group of homes all being put up at about the same time by the builder the public feels that the builder must have a big demand for his homes to go into construction work so heavily; they want to get in on the proposition and buy some of the builder's homes, too.

Also the fact of the builder putting up so many homes at once makes the public feel that the builder is getting the lower prices that come with quantity production. Therefore these houses can be purchased more cheaply. Which also helps to sell the homes. Finally, the fact of a group of homes going up at once gives a group of friends a chance to settle in the same locality. This helps very considerably, too, in increasing sales.

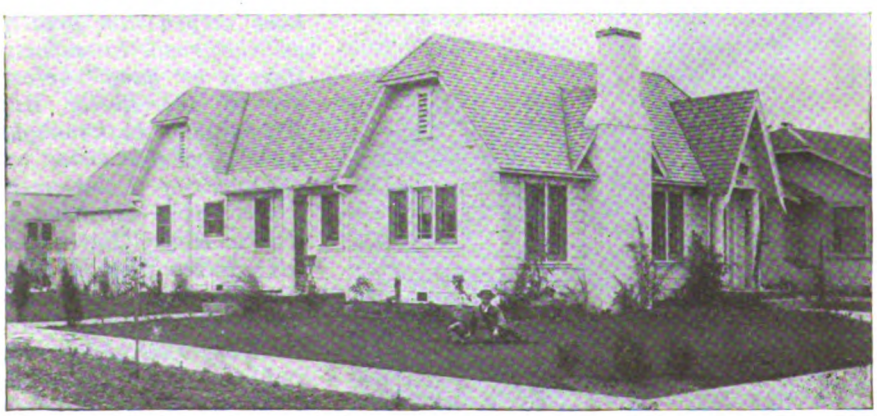
Mr. Barr's idea about confining construction work to one particular section is along the same line as this. By having all his homes in one section he makes a greater mass impression on the public and gives himself more advertising.

Putting those things into homes that make the greatest appeal to home buyers calls for a careful analysis of the likes and dislikes of people generally. Mr. Barr finds that women are most interested in closet space and in kitchens. Consequently, his homes have a particularly large amount of closet space and kitchens that are a delight to all housewives. Men, on the other hand, are especially interested in good construction. So, in selling homes to the men, Mr. Barr calls their especial attention to the good construction features which have been so helpful in enhancing his reputation as a good builder. And both men and women, he finds, like big living rooms. So some of his five room homes have living rooms that are unusually large for bungalow homes.

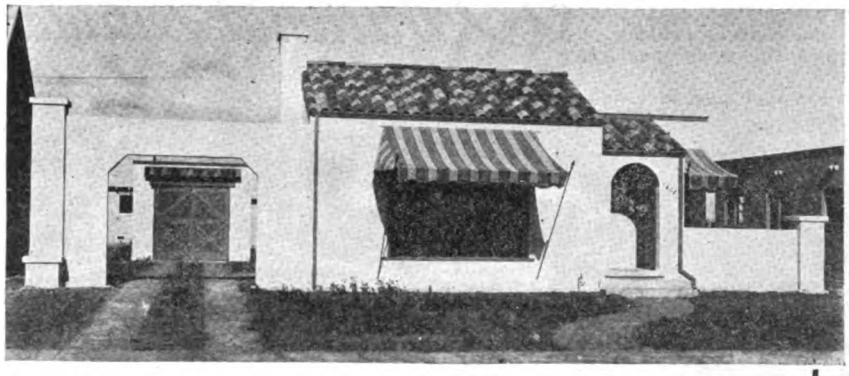
Keeping up with the times by adding new things from time to time is one of the best things Mr. Barr does. Featured in his homes are Aztec fireplaces, sanette finish which is put on with oil paints over the plaster finish and which may be washed with soap and water, Upson Board in kitchens and bath rooms, pedestal washstands in the bath rooms, elevated stands for water heaters in the screened porches with storage space beneath, extra large halls in some of his five room houses with hall closets which provide space for door beds if desired, casement windows, etc.

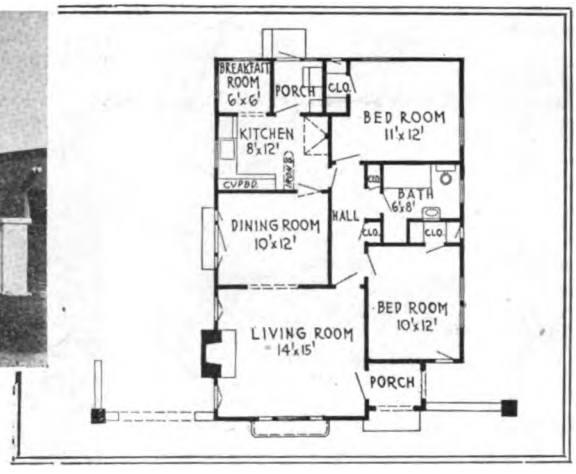


A corner lot gives this design adequate display. Here, clapboards have been used to good advantage. Plan reveals good sized nook just off the kitchen. Living and dining rooms have folding doors between for convenience



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The arch is a integral part of this house and gives it added width. Interior is marked by unusually compact arrangement and provides a great amount of usable space within four small walls

In keeping up with the times Mr. Barr finds it to his advantage to read his building trade paper very closely and to study the homes that other builders put up in Santa Ana and vicinity and in other parts of the state. Also Mr. Barr finds it of great advantage to find out what the prospective purchasers have to say about home construction and about new things in the homes.

So much, then, for the most important things, in Mr. Barr's opinion, for the home builder to do if he is to achieve success.

And now for a consideration of the means by which Mr. Barr sells his homes after they are constructed.

"I find that the best way for me to get prospects," says Mr. Barr, "is from satisfied customers. I haven't yet put up a home, in good times or bad, which wasn't sold within two months after it was finished and about eighty percent of people who have been directed to me by satisfied customers. That is where the fact of having a good reputation as a builder is of the greatest possible benefit to the builder.

"Next to satisfied customers as a means of getting prospects and making sales, I find that advertising is most effective.

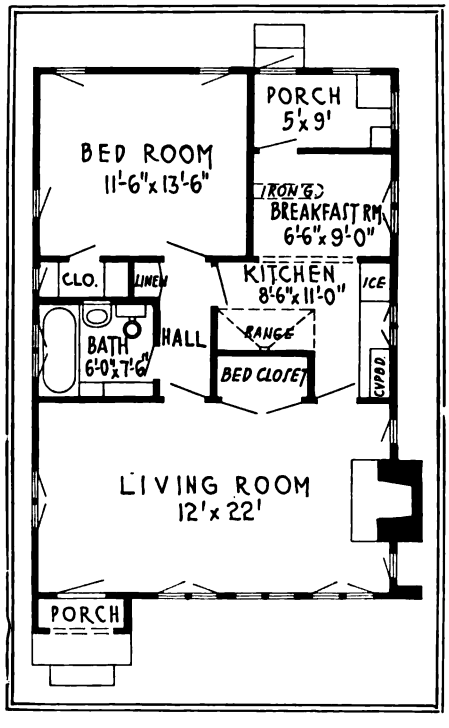
"I use both newspaper advertising and signs in front of my homes. In this advertising I play up my slogan, 'Barr's Better Bilt Bungalows.' This is a slogan that is easily remembered and that makes a deep impression on people. It makes them remember my name and it makes them remember the sort of construction work I am doing. All of which is a big help in putting sales across.

"My houses are generally sold on the basis of $1,000 down, the balance payable on the installment plan on terms to suit the purchaser. Prices of homes depend on the size of the house and the location, of course. In a group of homes I am just completing the homes are five and six room structures—and the extra size hallway in which a door bed can be installed is considered as a room. These homes, with single garage, cement work in, screens in, etc., sell for from $6,250 to $6,750 on the thousand-dollar-down, balance-on-time plan. Of course there is a reduction if a man pays all cash for a house. In such a case the $6,750 house would be sold for about $6,400.

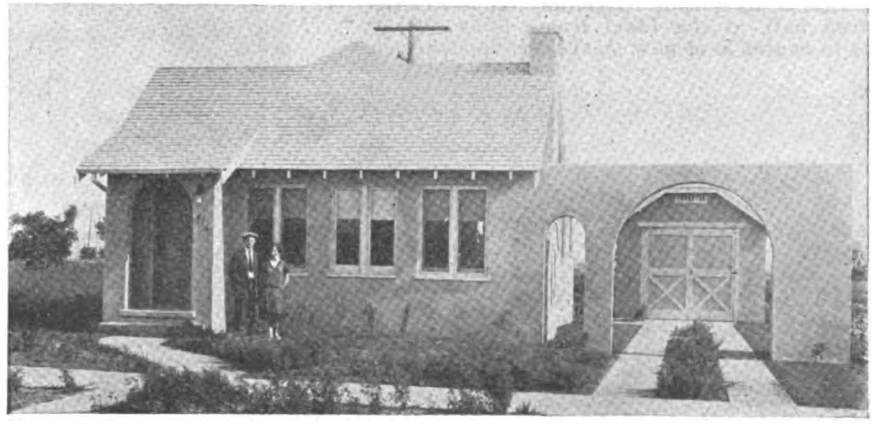
"It is my constant effort to build each new house better than the previous one and the public is realizing this and appreciating my efforts along this line."

Interesting, isn't it? And aren't there some worth while ideas in all this that can be used to advantage by other builders?

The ability to achieve success cannot be transmitted, it is true. But the basic rules that guide the provident builder are well worth passing on from one to another. Mr. Barr's message should be borne in mind.



Across the house there extends a living room with an ample fireplace at one end. For guests a bed is found in the adjoining bed closet. Note ironing board provision in breakfast room. These are two important features



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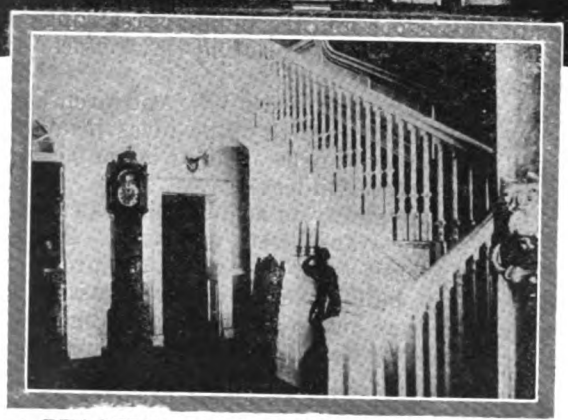
TO subterranean depths through a 2-foot hole. Digging for piles on this Boston job, water was struck at 16 feet. Only a diver could withstand the pressure.



Turner City? (right) Composite picture of 1924 building of Turner Construction Company, New York City.

Washington met his bride in this old home (below). It is "Kenmore" at Fredericksburg, Va., and now a shrine.





A PEACEFUL English Village (below) with townsfolk swapping news of the day. Actually this is all within "Olympia," London's exposition hall, at the Ideal Home Show. Gray house in center is of new steel type construction



The late Woodrow Wilson and Admiral Dewey are buried within this cathedral. It is the National Cathedral on Mount St. Albans, Washington, D. C., already one-eighth completed.



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Pictorial



This building (right) is certainly warped but not by rain and sun. The designer, a Los Angeles architect, believes in advertising to roadside trade.

New York's highest building is a church? (below right) Gotham's skycraper church will be the loftiest when completed as it's to be on Washington Heights, New York City.

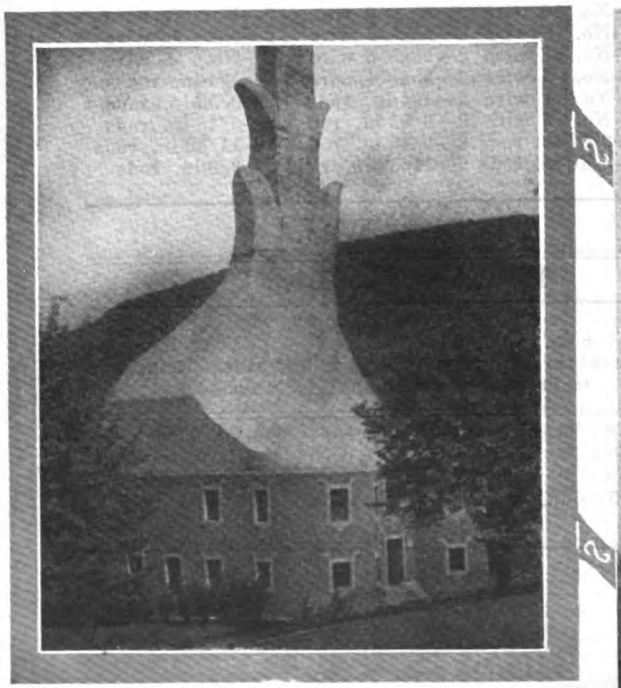


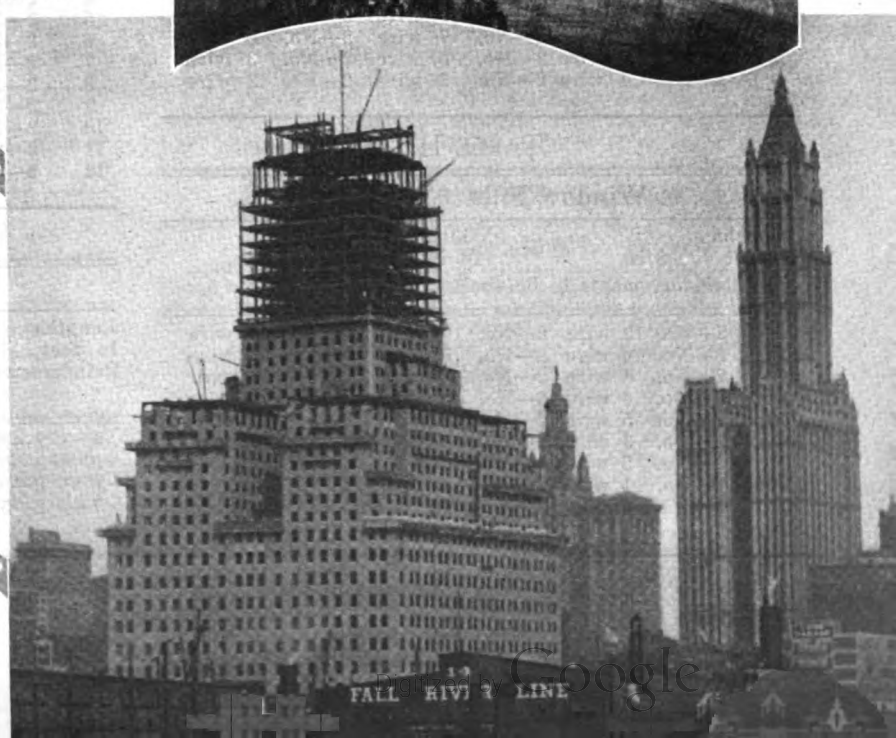
Central Plaza in Dairen. Dairen is not an American or European city but is in Manchuria. It's a long way from our idea of Chinese architecture.



Built on nickels (lower right) Rivalling the Woolworth Building is this new structure of the N. Y. Telephone Co., of 36 stories completed since this picture was taken.

What do you mean, a Power House? Powerful queer! (below) Dr. Rudolph Steiner's Spiritual Science Group of Dornach, Switzerland, call this "Nature" architecture.

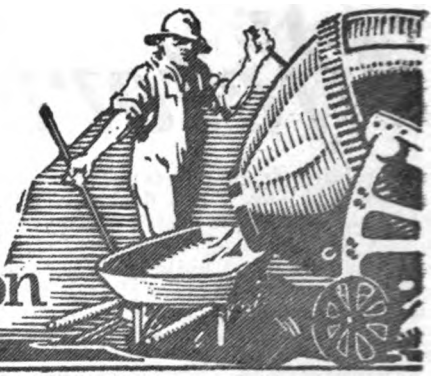




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CONCRETE

Form Work-Reinforcing Methods Monolithic and Block Construction



What Size Lintel?

HOW much reinforcement should be put in a lintel and how much should be put in a sill for a door or window? This is a question that comes in often to the editors.

The following tables have been computed especially for the benefit of builders who wish to make lintels and sills for brick, stone or concrete block walls. The computations have been made upon assumptions used in building ordinances, according to the straight-line theory of reinforced concrete.

It is assumed that the concrete will be composed of well-graded, screened and washed materials. It is to be well mixed with just enough water to make it pasty. It should have a consistency which will permit it to flow readily around the reinforcement, but it should not run like thin soup. The mix recommended is 1 part of approved Portland cement, 1½ parts clean, well-graded, washed sand, 3 parts clean, well-graded stone or gravel, the maximum size of any particle not exceeding ¾ in. cube, or diameter.

The reinforcement to consist of wire, the sizes being in accordance with United States Bureau of Standards Gauge. In some pieces the reinforcement consists of round rods. The wire should be straightened in a wire straightening machine before use. The ends should terminate one inch from the ends of the pieces, the total length of each piece of reinforcement being two inches less than the sill or lintel.

The designs are based on the assumption that the pieces will, or may be, swung from stock-pile to truck, from truck to store and from store to place by means of a sling around the middle. This requires reinforcement in the top as the pieces when thus swung will act as cantilever beams. The reinforcement in the top is sufficient to carry the dead weight of the pieces with a good factor of safety. This applies to all pieces whether serving as sills or lintels. The reinforcement in the top is the same no matter whether the piece serves as a window or door sill or as a wall bearing lintel.

The tables are in three sections.

TABLE I

Window Sills 4 in. Deep

Lengths in feet	Widths 8 in.	10 in.	12 in.
	Reinforcement to be similar in top and bottom.		
4	2—No. 12 wire	2—No. 11 wire	2—No. 10 wire
5	2—No. 11 wire	2—No. 9 wire	2—No. 8 wire
6	2—No. 9 wire	2—No. 7 wire	2—No. 5 wire
7	2—No. 6 wire	2—No. 5 wire	2—No. 3 wire
8	2—No. 4 wire	2—No. 3 wire	2—No. 2 wire

TABLE II

Window Sills 6 in. Deep

Lengths in feet	Widths 8 in.	10 in.	12 in.
	Reinforcements to be similar in top and bottom		
4	2—No. 12 wire	2—No. 10 wire	2—No. 10 wire
5	2—No. 10 wire	2—No. 9 wire	2—No. 8 wire
6	2—No. 8 wire	2—No. 8 wire	2—No. 6 wire
7	2—No. 6 wire	2—No. 5 wire	2—No. 4 wire
8	2—No. 5 wire	2—No. 3 wire	2—1/4-in. rods
9	2—No. 3 wire	2—No. 2 wire	2—5/16-in. rods
10	2—No. 2 wire	2—5/16-in. rods	2—5/16-in. rods
11	2—No. 1 wire	2—5/16-in. rods	2—11/32-in. rods
12	2—5/16-in. rods	2—11/32-in. rods	2—3/8-in. rods

TABLE III

Window Sills 8 in. Deep

Lengths in feet	Widths 8 in.	10 in.	12 in.
	Reinforcement to be similar in top and bottom.		
4	2—No. 12 wire	2—No. 11 wire	2—No. 10 wire
5	2—No. 10 wire	2—No. 9 wire	2—No. 8 wire
6	2—No. 8 wire	2—No. 7 wire	2—No. 6 wire
7	2—No. 7 wire	2—No. 5 wire	2—No. 4 wire
8	2—No. 5 wire	2—No. 4 wire	2—1/4-in. rods
9	2—No. 4 wire	2—1/4-in. rods	2—9/32-in. rods
10	2—No. 2 wire	2—9/32-in. rods	2—5/16-in. rods
11	2—9/32-in. rods	2—5/16-in. rods	2—11/32-in. rods
12	2—5/16-in. rods	2—11/32-in. rods	2—3/8-in. rods

TABLE IV

Door Sills 4 in. Deep

Lengths in feet	Widths 8 in.	10 in.	12 in.
	Reinforcement in top same as in window sills. Reinforcement in bottom as in this table.		
4	2—No. 5 wire	2—No. 5 wire	2—No. 4 wire
5	2—No. 3 wire	2—No. 2 wire	2—No. 2 wire
6	2—No. 0 wire	2—No. 0 wire	2—No. 0 wire
7	2—5/16-in. rods	2—3/8-in. rods	2—3/8-in. rods

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In the first section the reinforcement is given for window sills. It is the same in the top and the bottom. When two pieces of steel are called for, it means two pieces in the top and two of the same size in the bottom. Sills are assumed to rest at the ends on the brick or stone or concrete block wall. The supports are assumed to be not less than three inches long at each end. The remainder of the length is bedded in lime mortar in order to equalize stresses due to bedding. When the job is completed the mortar joints are to be raked on face and rear of wall to a depth of about ¾ in., and good cement mortar used to fill the raked spaces.

In the second section the pieces are for use as door sills. The reinforcement in the top is the same as for window sills, so is not repeated in the tables. The reinforcement mentioned in the table is for the bottom only. It is based on the sill carrying its own weight plus a 200-lb. weight in the middle of spans of 4 ft. and 5 ft. Two 200-lb. loads two feet apart are used on spans of 6 ft., 7 ft. and 8 ft. Three 200-lb loads two feet apart are used on spans of 9 ft. and 10 ft. Four 200-lb. loads two feet apart are used on spans of 11 ft. and 12 ft.

In the third section the pieces are for use as door or window lintels carrying walls. The pieces 8 in. wide and 10 in. wide are for 8-in. walls. The pieces 12 in. wide are for use with either 8-in. or 12-in. walls. They are strong enough for non-bearing walls in any type of building. They are strong enough for load-bearing walls in residences.

In the tables the depths given are over-all depths, the widths are over-all widths and the lengths are over-all lengths. The spans in all cases are assumed to be 6 in. shorter than the lengths.

The pieces may have chamfered edges if desired for ornamental purposes. A slight chamfering will do no harm. When used for sills one edge may be narrower than the other and in this case the average depth should be that given in the tables. For example a sill is to have a depth on the front edge of 7 in. Use the reinforcement required for a piece with a depth of 8 in. and make the back edge 9 in. deep. The average depth will then be 8 in.

Do the trimming always from a larger piece. Make no attempt to get more work out of a piece than it is designed to perform. The rule is general to use the next size larger piece for sizes between those given in the tables. When it is desired to have a width of 9 in., for example use the reinforcement called for in a 10 in. width.

When it is required to use a 14 in. width instead of a 12 in. width for a 12-in. wall the reinforcement for a piece 12 in. wide may be used. This is the only exception to the above rule. To attempt to use greater widths with proportionate increases in the amount of reinforcement will not work out in all cases.

For wide window sills carrying piers windows it is advisable to use the table for door sills. All window sills have been designed with the assumption that they carry practically nothing more than their own weight. The factor of safety permits a small addition to the load but it is not wise to make a guess.

TABLE V

Door Sills 6 in. Deep

Lengths in feet	Widths 8 in.	10 in.	12 in.
Reinforcement in top same as in window sills. Reinforcement in bottom as in this table.			
4	2—No. 7 wire	2—3/16-in. rods	2—3/16-in. rods
5	2—No. 5 wire	2—7/32-in. rods	2—No. 4 wire
6	2—1/4-in. rods	2—1/4-in. rods	2—9/32-in. rods
7	2—No. 1 wire	2—No. 2 wire	2—5/16-in. rods
8	2—11/32-in. rods	2—3/8-in. rods	2—3/8-in. rods
9	2—13/32-in. rods	2—13/32-in. rods	2—7/16-in. rods
10	2—7/16-in. rods	2—15/32-in. rods	2—15/32-in. rods
11	2—15/32-in rods	2—1/2-in. rods	2—1/2-in. rods
12	3—7/16-in. rods	3—7/16-in. rods	3—7/16-in. rods

TABLE VI

Door Sills 8 in. Deep

Lengths in feet	Widths 8 in.	10 in.	12 in.
Reinforcement in top same as in window sills. Reinforcement in bottom as in this table.			
4	2—5/32-in. rods	2—No. 8 wire	2—No. 7 wire
5	2—7/32-in. rods	2—No. 4 wire	2—No. 3 wire
6	2—No. 4 wire	2—No. 3 wire	2—1/4-in. rods
7	2—No. 2 wire	2—9/32-in. rods	2—No. 0 wire
8	2—5/16-in. rods	2—11/32-in. wire	2—11/32-in. rods
9	2—11/32-in. rods	2—3/8-in. rods	2—13/32-in. rods
10	2—13/32-in. rods	2—13/32-in. rods	2—7/16-in. rods
11	2—7/16-in. rods	2—15/32-in. rods	2—15/32-in. rods
12	3—7/16-in. rods	3—15/32-in. rods	3—1/2-in. rods

TABLE VII

Wall Bearing Lintels 4 in. Deep

Reinforcement in top same as in window sills. Reinforcement in bottom as in this table.

Length 4 ft.	12 in. Wall	2—11/32-in. rods	width 12 in.
Length 4 ft.	8 in. Wall	2—1/2-in. rods	8 and 10 in. wide

TABLE VIII

Wall Bearing Lintels 6 in. Deep

Lengths in feet	Reinforcement in top same as in window sills. Reinforcement in bottom as in this table.		
4	For 8 in. wall	2—9/32-in. rods	8 or 10 in. wide
4	For 12 in. wall	2—11/32-in. rods	12 in. wide
5	For 8 in. wall	2—13/32-in. rods	8 or 10 in. wide
5	For 12 in. wall	3—13/32-in. rods	12 in. wide
6	For 8 in. wall	3—13/32-in. rods	10 or 12 in. wide

TABLE IX

Wall Bearing Lintels 6 in. Deep

Lengths in feet	Reinforcement in top same as in window sills. Reinforcement in bottom as in this table.		
4	For 8 in. wall	2—No. 3 wire	8 or 10 in. wide
4	For 12 in. wall	2—No. 0 wire	12 in. wide
5	For 8 in. wall	2—11/32-in. rods	8 or 10 in. wide
5	For 12 in. wall	4—No. 1 wire	12 in. wide
6	For 8 in. wall	3—11/32-in. rods	8 or 10 in. wide
6	For 12 in. wall	3—7/16-in. rods	12 in. wide
7	For 8 in. wall	3—7/16-in. rods	8 or 10 in. wide
7	For 12 in. wall	4—7/16-in. rods	12 in. wide

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Attached Garages

Feature These Two Clever Homes



The Prim New England Colonial Style is Reflected Here

THIS is a Colonial house where nothing has been slighted that might enhance the flavor of early American precedent. From walls of rich creamy siding and a roof of dark brown tint, one's attention turns to the decorative scheme embodied in a red brick chimney and garage walls and blinds of apple green.

Here a garage has been worked into the design so cleverly that the charm is enhanced rather than threatened by this utility feature. Combining brick construction with frame, and doing it successfully, effects a novelty touch and provides the garage with fire-resistant walls as well. Then erecting a ceiling of metal lath and plaster complete a garage cubicle as fire-safe as strictest caution demands. Windows are double-hung steel, preferably set with fire glass.

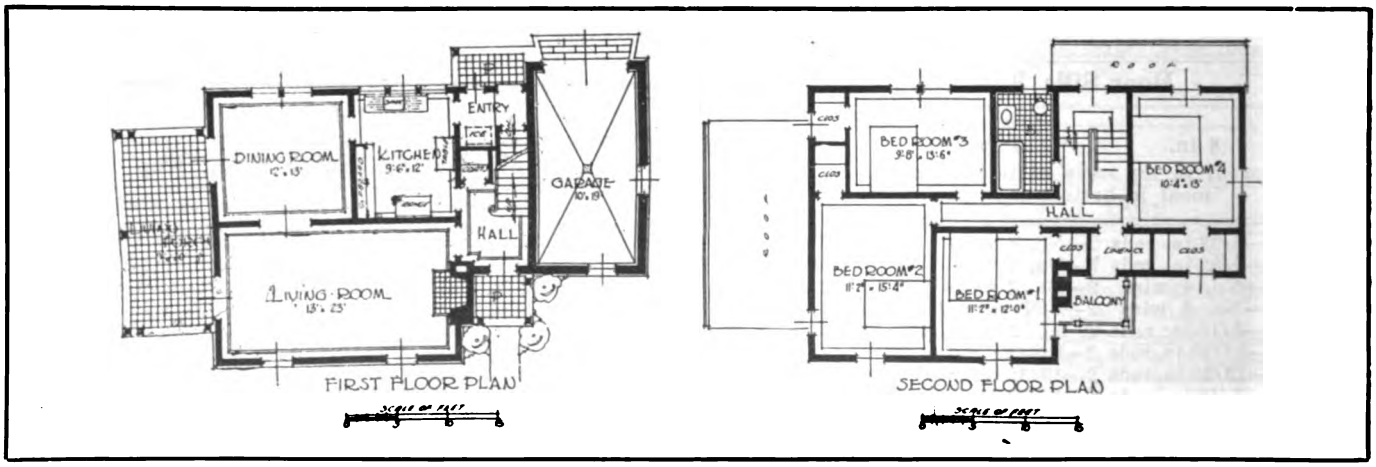
Turning to the house proper, good design is unquestionably the keynote. A cozy little porch first compels the visitors' admiration. This covers the entrance in a novel manner and, further, provides the second floor with a tiny balcony. Giving entrance to this is a door carried out with the same small panes that distinguish all windows in this trim residence. Double-hung steel sash provides the best medium for carrying out this early Colonial effect.

Within, the design fulfills a promise of comfortable and convenient arrangement. Through the front entrance one passes into a hall featuring most importantly a Colonial stairway. To the left, a living room accounts for both front windows. A fire-place is disposed at near end.

Conforming with the present mode, only actually necessary space is alloted to the dining room. This too, however, has an opening into the sun porch. The kitchen has the benefit of three exists; one to the dining room, another to entry and a third to front hall. Suitable working space has been provided.

FOLLOWING the Colonial stairway to the second floor, it is equally gratifying to find there commodious living quarters with hardly an inch of unused space. Four bedrooms are included, each of adequate proportion and within convenient approach of the bathroom.

Landscaping such a home as this is not difficult. A natural setting is the most appropriate with a well-kept hedge to add a certain trimness to the grounds. Estimated cost is $12,700.



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Designed Specially for Readers of Building Age and National Builder

By

R. C. Hunter & Bro.
Architects



Old Dutch Colonial Influence Here Creeps to the Fore

THE tremendous popularity of the Dutch Colonial does not necessarily mean that monotony of style is unavoidable. The owner's taste will usually dictate those little changes that make for individuality. This house verges just enough to erase all indications of too close conformity to mode.

Outstanding, of course, is the peaked gable surmounting the entrance. It is unusual, yet it carries out those same harmonious lines that emphasize Dutch Colonial grace.

Then, this same gable is repeated at the end of the house and used to roof an attached garage. The success is never in question and the treatment reflects most favorably on the ability of its designers.

An attached garage is, of course, at its best when entrance is to be had without going out of doors. In most certainly be exercised in fire- this home a connecting door is found opening through living porch. A word or two on constructing the attached garage will not be amiss. For positive fire resisting, the garage had best be built with walls and ceiling of metal lath over which Gypsum plaster is applied. Floor is concrete and windows double hung steel sash glazed with wire glass. Care should most certainly be exercised in fire-safing the connecting door. A single steel door, properly hung, will complete the correctly constructed attached garage.

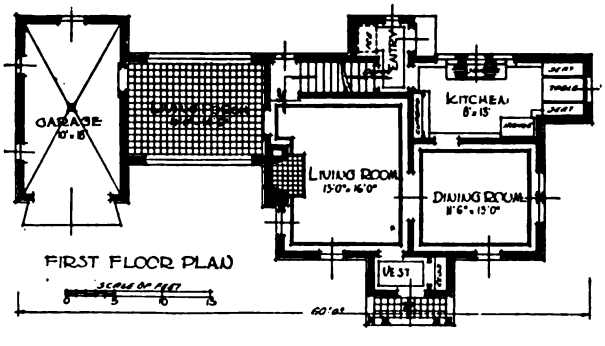
FOR the house itself, cream colored siding, a shingled roof in variegated shades of brown, and blue or green shutters are used to best advantage in the Dutch Colonial. Embellishments are found in the weather vane atop the garage and quaint little cut-outs embodied in the shutters—cut-outs depicting conventional potted flowers. Such ornamentation, however, can wisely be left to the owner's discrimination.

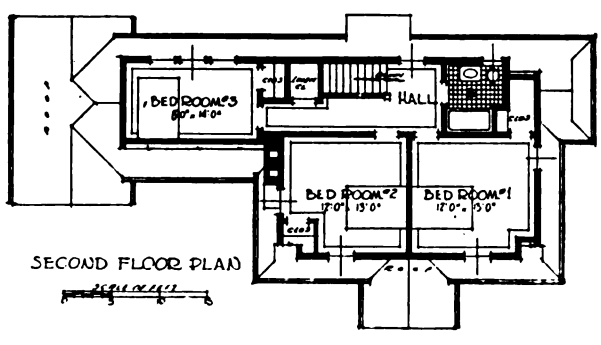
It is always a pleasure to view the interior of the Dutch Colonial. This type of design lends itself so well to generously proportioned rooms that several alternative plans will come to every readers mind.

This arrangement offers an entrance through a tiny vestibule to the living room. At the far end stairs lead to the second floor. The fireplace is provided at the left while access to the dining room is had across the room. A kitchen with exposures to the rear features a breakfast alcove with a window of its own.

On the second floor, a good sized hall, three bedrooms, a tile bath and linen closet complete the upstairs room arrangement.

Simple and unaffected is this house, yet it has everything that suggests identity and charm. The cost is in the neighborhood of $10,700.





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Hardware

Sales Value in Hardware

The difference between good hardware and bad is not always in terms of cost. Here is a discussion on moderately priced fixtures with emphasis on their sales value.

PICTURE the home ideal and its builder conducting prospects on a tour of inspection. At the front door the party pauses a moment. The man's attention is attracted to a tiny bronze arrow to the right of the door. The arrow points north, and shows the house's orientation. He is impressed by this little feature, you may be sure. Meanwhile the woman's attention is engaged in examining a tidy little scraper set conveniently on the top step. From the first, the two prospects react favorably to the house.

Once inside, the first glance discloses an interior ready for furniture and without that cold, impersonal appearance too often found in the new, and as yet unoccupied, home. Tracing this "completed look" to its source the customers find each window furnished with a shade and with curtain rods ready for the curtains. Also, the cased opening leading from the living room has its own curtain pole in place and ready.

Consider for a moment these little items from the builder's standpoint. Where the purchaser or tenant must install his own shades and curtain fixtures, nine times out of ten, he takes them with him when he vacates. In apartments, this is particularly true. Thus, ugly holes are left in the woodwork and the next occupant seldom screws his fixtures in the same position. More unsightly scars. Over cased openings this same regrettable condition is true.

In addition, then, to providing little sales helps, the builder should bear in mind that he is protecting the house as well by furnishing shades and curtain fixtures.

Returning to the prospects' tour of inspection, the man finds in the bathroom of this home ideal a hook for his razor strop; in the kitchen the woman finds a larger hook for her clothesline. Minor details, yes, but oftentimes they exert tremendous influence.

The bedroom closets may next be placed under scrutiny. The large ones reveal a veritable battery of clothes hooks. And on the nailing strip these are arranged a practical distance apart and far enough below the shelf (about six inches) to leave room for hanging hats. Who has not experienced the exasperating difficulty of trying to hang a straw hat on a hook close up against a shelf?

The smaller closets can best be furnished with special hangers that increase the usable space. Some of these pull out into the room for hanging or removing garments. Then, a shoe rack is an appealing little device to be found in any home.

DESIRE for security is a natural trait; everyone unconsciously looks to locks and bolts on the new house. Sturdily built locks are an advantageous investment. And no builder should forget to put a safety bolt on each outside door. These have considerable psychological effect on the woman prospect. A house may be ever so well built, but if the purchaser does not think his wife will feel "secure" in it, the chance of sale is small, indeed.

Many little devices are obtainable that help to beautify the door and make it easily manageable. Escutcheons, decorative hinges, and handy checks all help to make the home and apartment more attractive and livable.

Heavy windows are more easily handled with special window lifts. It is a far cry from the modern window to the old proverbial heavy, unbudgeable type that let in air in winter, but couldn't be opened to let in air in summer. To-day the perfectly equipped window is weatherstripped, it opens easily—balanced on sustainers or smooth sliding weights—and it takes no gruelling effort to raise or lower it.

IN ideal homes the builder may demonstrate these features with pardonable pride. True enough, the unschooled prospect may not turn immediately to such convenience features as true tests of the model home, but when his attention is called to them you may be sure he will be pleased.

Keeping a step ahead of the possible owner or tenant in this manner places the builder in an ideal merchandizing position. Too many work on the assumption that the customer listens to a discourse on good construction, digests the general room arrangement, but overlooks the details.

As a matter of fact, he very often does not recognize building practice when he sees it, but he does absorb the various details that flash through his mind on the inspection tour. A hook in the right place, an attractive door knocker may be the deciding factor of the deal.

Builders that are also good salesmen know this and take care to install and to bring out to advantage the various items that are included in the home ideal. Among them, hardware is far from least important.

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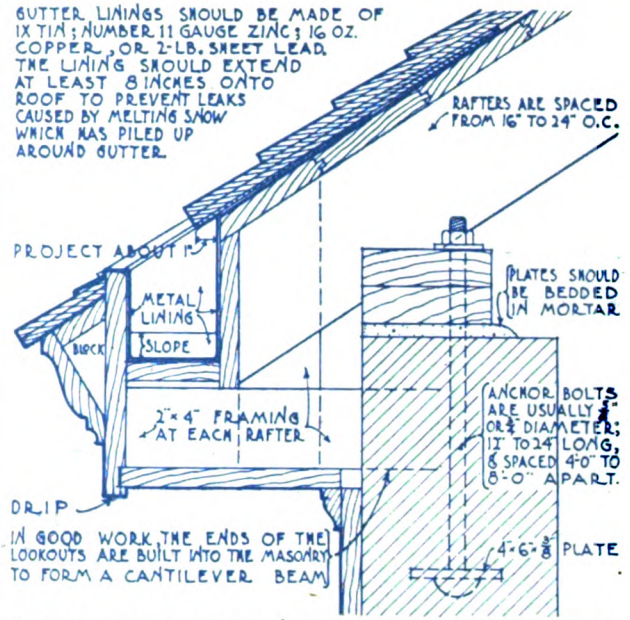


FIG. 1 - BOX CORNICE WITH BOX GUTTER

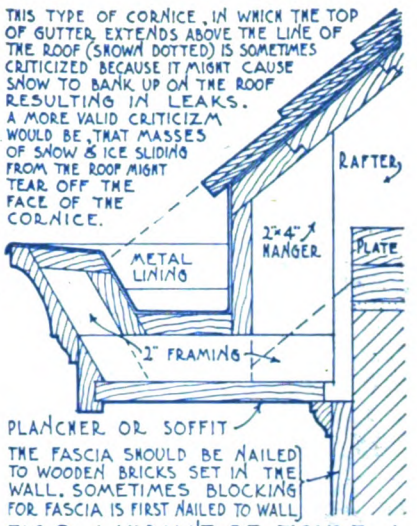


FIG. 2 - A VARIANT OF FIGURE 1.

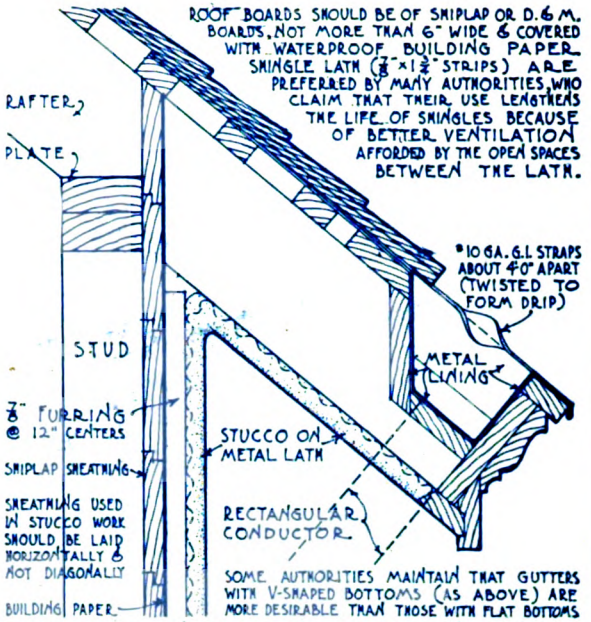


FIG. 3 - CLOSED RAFTER WITH SUNK GUTTER

PLATE XII.©

CORNICES & GUTTERS

WITH SLIGHT MODIFICATIONS, THESE DETAILS MAY BE USED FOR EITHER FRAME OR MASONRY WALLS

IF GUTTERS ARE SET TO A TRUE & UNIFORM PITCH, A SLOPE OF 1-INCH TO 20 OR 25 FEET IS AMPLE

SCALE FOR ALL FIGURES: 1½ INCH EQUALS 1-FOOT.

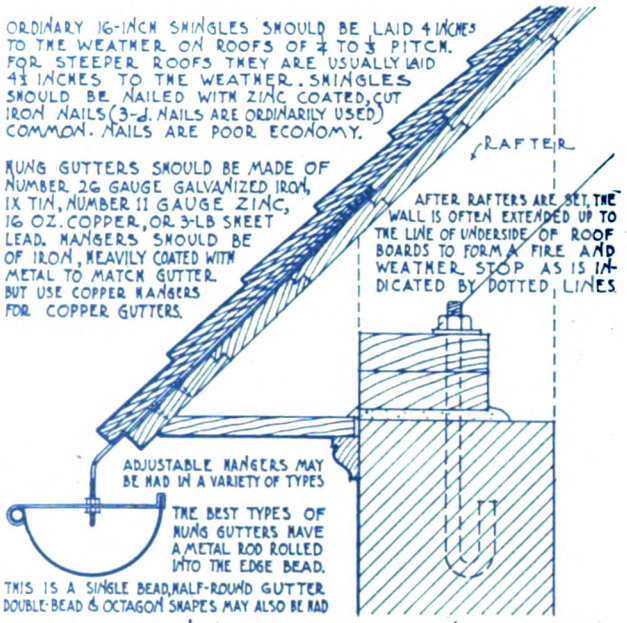


FIG. 4 - PLAIN EAVE WITH HUNG GUTTER

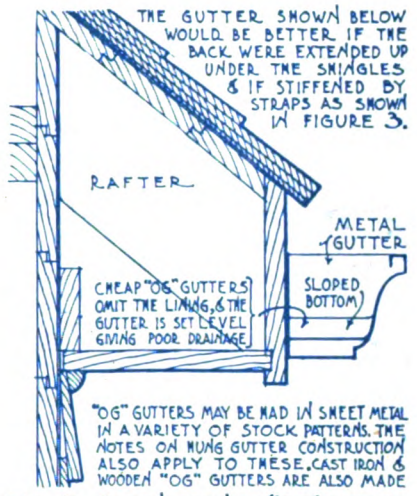


FIG. 5 - PLAIN CORNICE, "OG" GUTTER

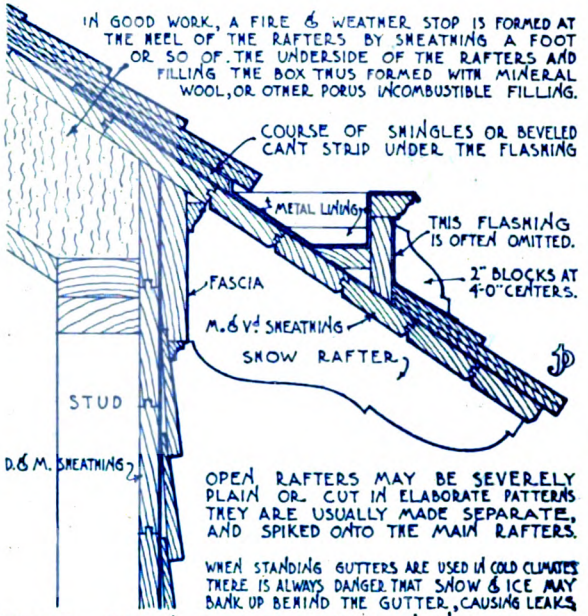
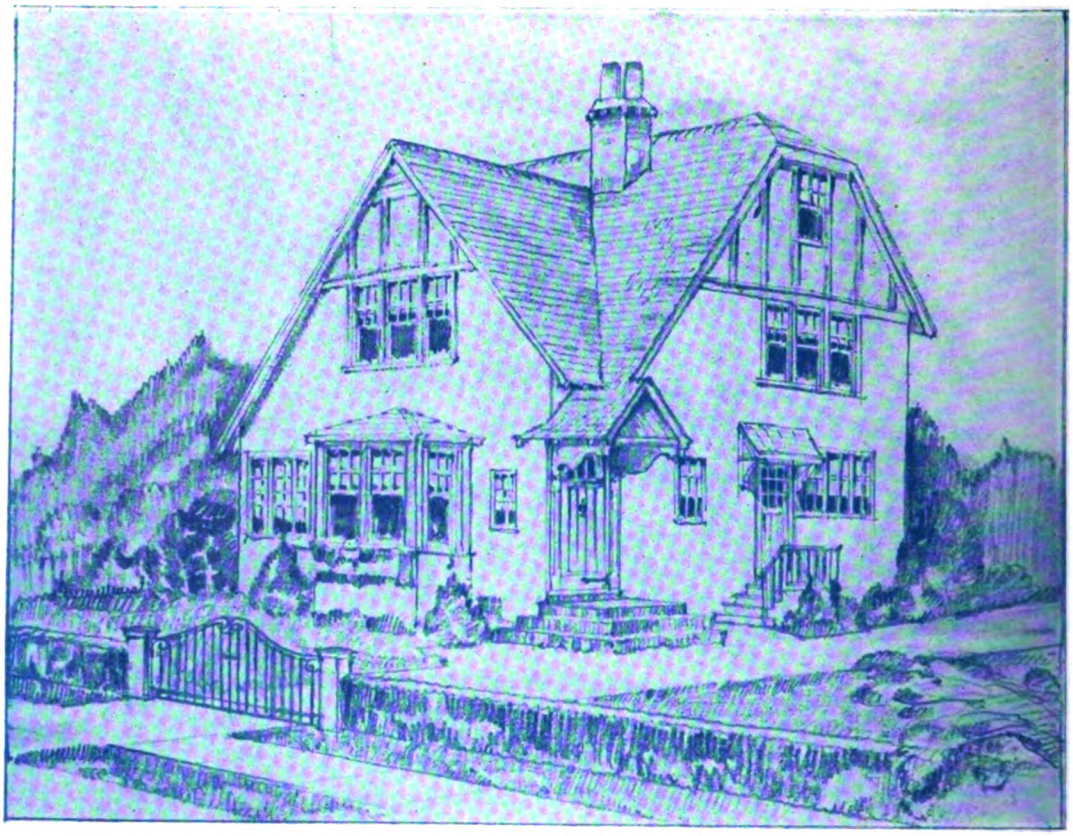


FIG. 6 - OPEN RAFTER WITH STANDING GUTTER

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An Inviting House of Stucco

The Plans Shown on Blue Print Drawn for Building Age and National Builder

STUCCO houses are legion in the land, and little wonder when one considers the possibilities this material affords for fresh and vivid treatment. The design seen here shows stucco handled in a distinctive manner. Without lapsing into the freakish, it manages to convey a sense of the novel and quaint. When analyzed, one realizes that the details rather than the shape of the house form the original element.

The picturesque main entry, with its steps of brick, is nicely balanced by an adjoining service entry.

Half timber work on the gables lends a flavor of the old English, an effect which is heightened by the peaked entrance and the strip-panel door with its iron strap hinges and panes of leaded glass. The cement finish chimney, with just a line of relieving brick, draws the eye to the odd shaped roof of shingles.

Outline of Specifications

EXTERIOR:

Walls to be of stucco on metal lath or patent wood lath base. Steps and platform of main entry are paved with common brick; service entry steps of wood.

Exterior trim is to be painted three coats.

ROOFS:

To be covered with shingles, either wood, slate, asphalt, or asbestos; variegated or solid tone as owner desires.

Leaders rectangular in section, either galvanized iron, copper, or zinc, with simple ornamental heads.

WINDOWS:

All frames and sash to be of wood, with double hung casement windows located as indicated on plans. Steel single sash and casements in basement.

INTERIOR TRIM:

Bedroom and bathroom of white pine or poplar. Living room of oak. Dining room of cypress or mahogany.

Oak doors in living room and dining room. All other doors to be of white pine or Douglas fir.

PAINTING:

Dining room and living room walls in tinted plaster with color blended in mix. Trim stained and waxed. Bedroom walls papered, ceiling plastered; trim enameled. Halls and closets painted with white cold water paint. Bathroom walls above tile wainscot, and ceiling to be enameled in color. Kitchen walls and ceiling painted, trim enameled white. Laundry to be painted white and finished with waterproof varnish.

Board partitions in cold storage and boiler room, cold storage walls and ceilings to have two coats of cold water paint. Cement floor painted with dark red cement paint.

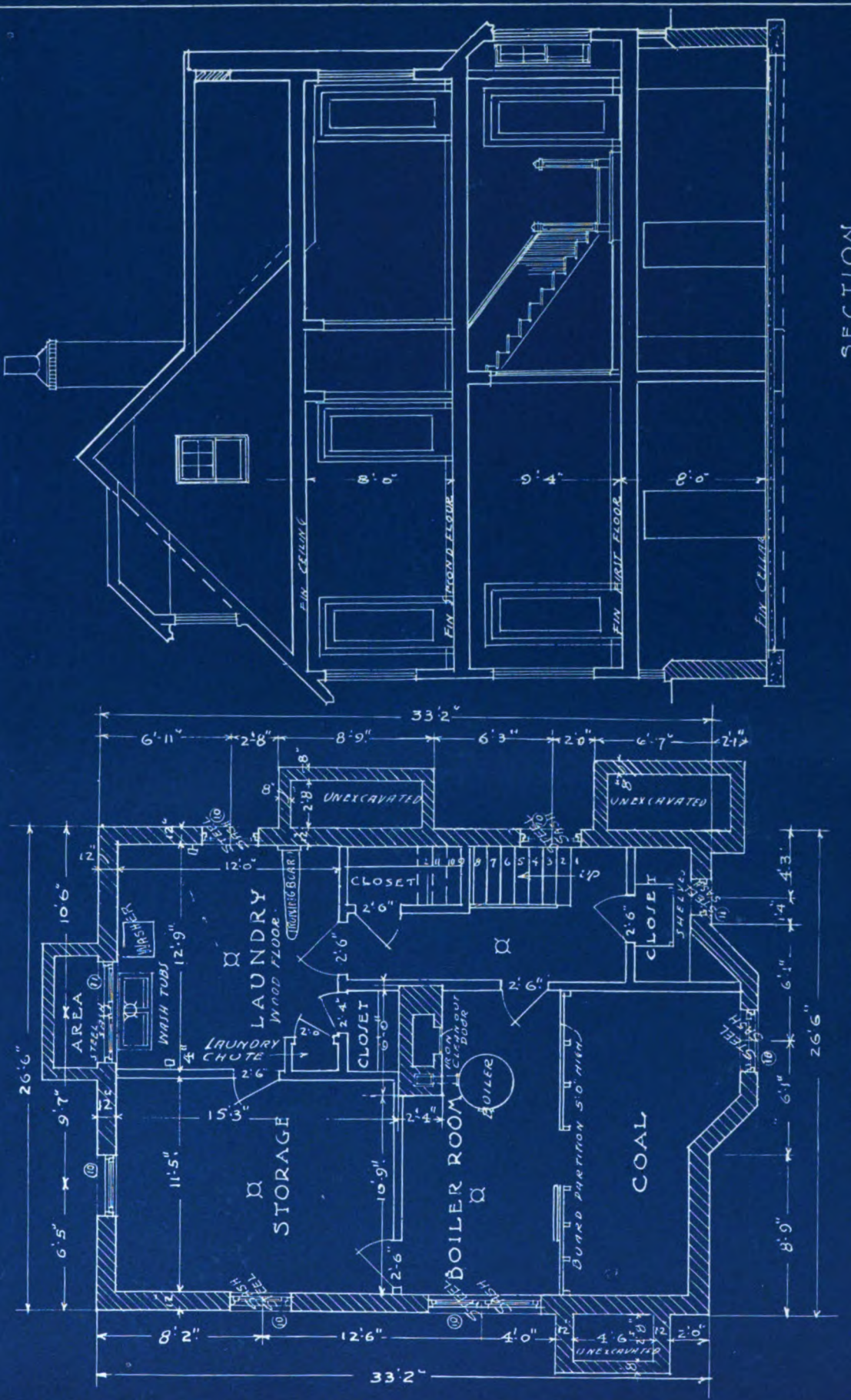
HEATING:

Heating to be of steam or hot water with radiators located as indicated on plans. Temperature to be controlled by thermostat.

PLUMBING:

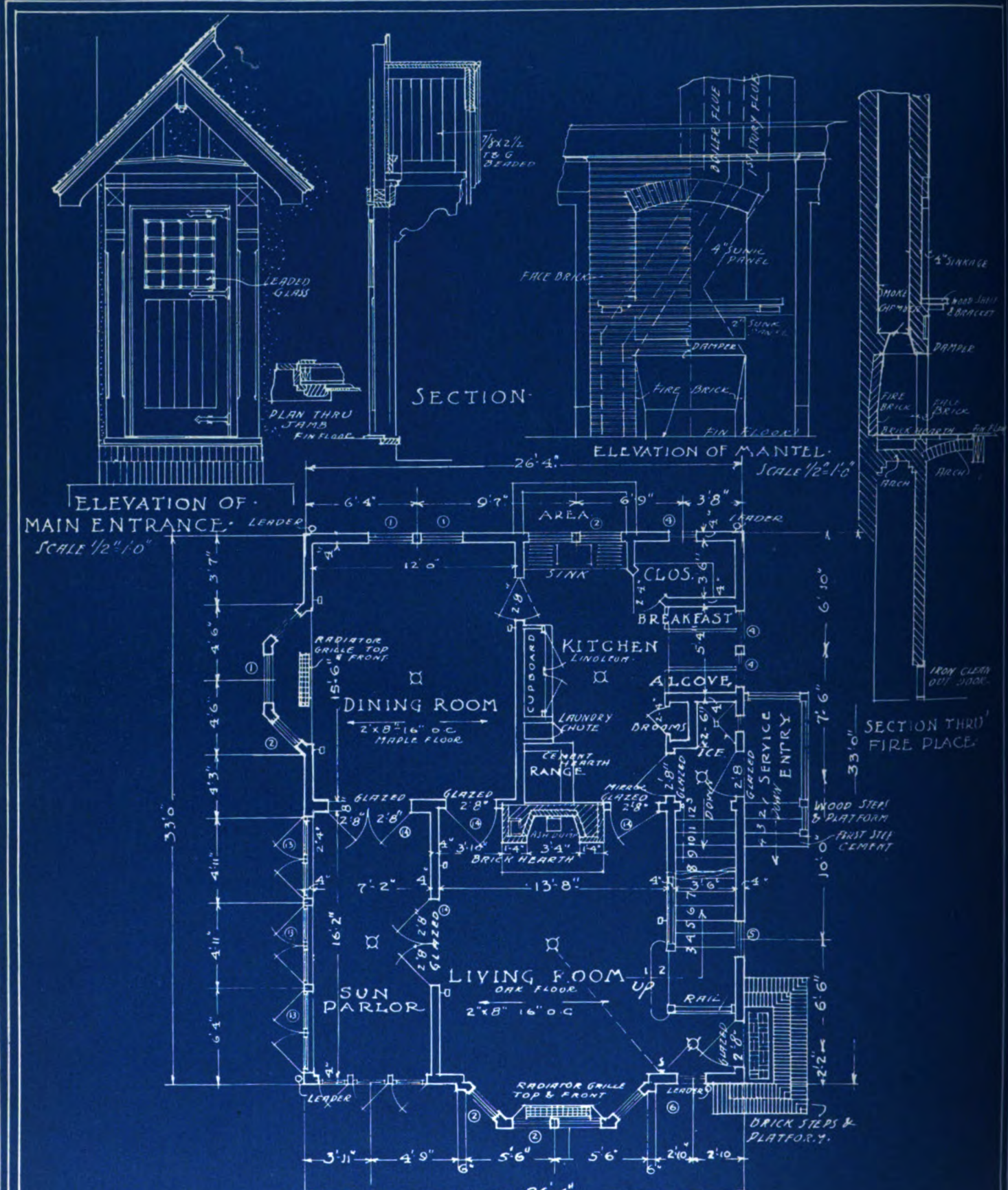
Bathtub, sink and lavatory of enameled iron. Porcelain toilets and wash tubs. Drainage and vent pipes cast iron; brass water pipes; gas connection to fireplace and kitchen range.

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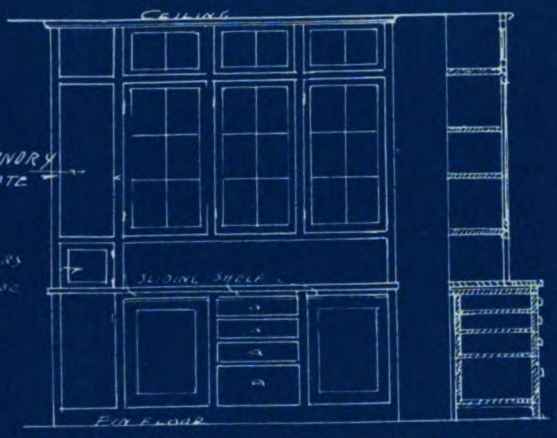


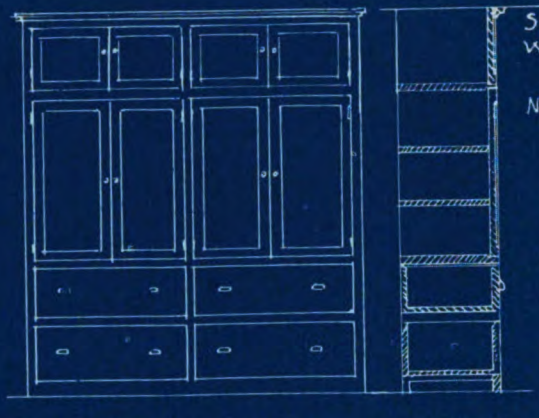
BUILDING AGE AND NATIONAL BUILDER
WORKING DRAWINGS
Drawn by William Sanger

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SCHEDULE OF WINDOW SASH.

FIRST FLOOR

No 1	2'-8" x 5'-2"	D H
2	2'-4" x 5'-2"	" "
3	2'-4" x 4'-0"	" "
4	2'-0" x 4'-0"	" "
5	2'-0" x 4'-6"	" "
6	2'-0" x 3'-6"	" "

SECOND FLOOR

7	2'-8" x 4'-10"	D H
8	2'-4" x 3'-4"	" "
	ATTIC	"
9	2'-4" x 3'-0"	CASEMENT

BASEMENT

10	1'-4" x 3'-0"	SINGLE SASH
11	1'-4" x 2'-0"	
12	2'-4" x 3'-0"	STEEL CASEMENT

SCHEDULE OF DOORS

FIRST FLOOR

13 2'-4" x 7'-0" } CASEMENT
14 2'-8" x 7'-0" } DOORS GLAZED

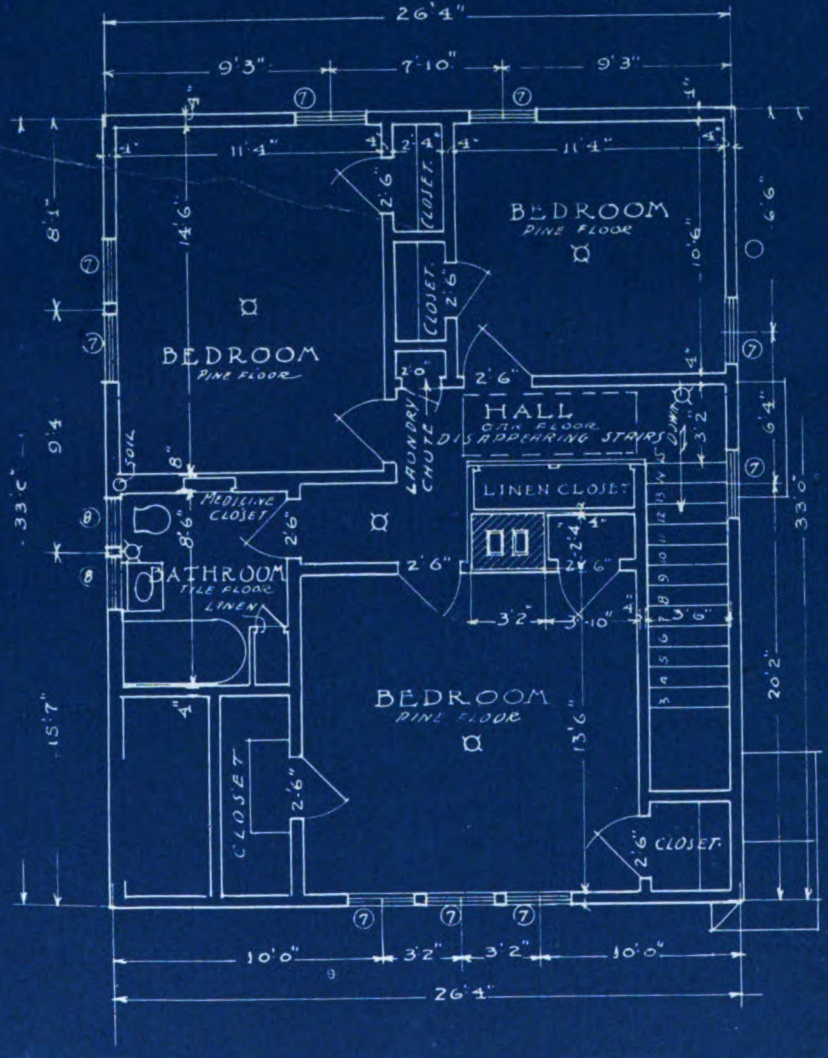
ALL OTHER DOORS 7'-0" HIGH.

SCHEDULE OF DOORS

SECOND FLOOR

DOORS 6'-10" HIGH.

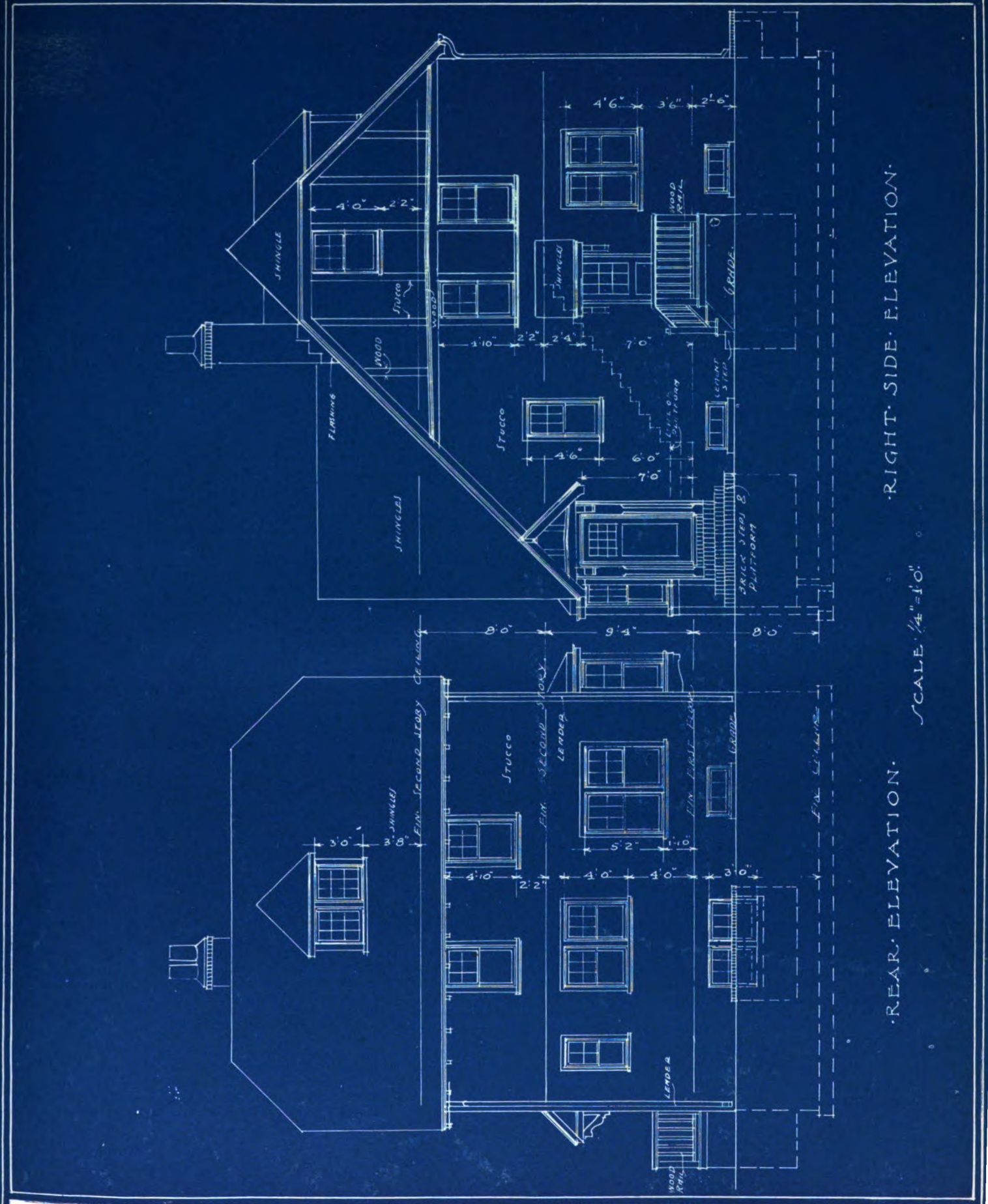
DOORS IN BASEMENT 6'-8" HIGH.



SECOND FLOOR
SCALE 1/4" = 1'0"

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Bill of Material

for

An Inviting House of Stucco

Prepared by Walter J. Fradgley

EXCAVATION

Basement (two feet larger than wall measurement)	225	cu. yd.
Trenches and pier footings	11	cu. yd.
Back fill around foundations and footings	24	cu. yd.

MASONRY AND IRON WORK

Concrete footings	380	cu. yd.
Concrete basement and area floors 3" base, ¼" topping	822	sq. ft.
Face brick; Exterior step platforms and area copings	364	brick
Common brick; Fireplace and chimney	6,916	brick
Face brick for fireplace	525	brick
Fire brick for fireplace	165	brick
Common brick; Foundation and area walls	17,444	brick
Flue lining, 8"x12"	64	lin. ft.
Cast iron cleanout door and frame	1	piece
Thimbles	1	piece
Ash dump for fireplace	1	piece
Fireplace damper	1	piece
Anchor bolts for wall plates	25	pieces

PLASTERING

Exterior stucco over metal lath and furring	284	sq. yd.
Plaster on interior walls and ceilings, 1st and 2nd floors	690	sq. yd.
Plaster—Basement ceilings and stud partitions	186	sq. yd.

STAIRS

1st floor to basement	1	flight
1st floor to 2nd floor	1	flight

CARPENTRY

2"x8" Wall plates	160	bd. ft.
2"x10" Floor joist; 1st and 2nd floors	2,167	bd. ft.
2"x6" Ceiling joists	650	bd. ft.
2"x4" Roof rafters	898	bd. ft.
2"x4" Exterior studs and plates	1,790	bd. ft.
2"x4" Interior studs and plates	1,707	bd. ft.
1"x6" D. & M. rough flooring	2,138	bd. ft.
Floor paper under finished floors	18	squares
1"x6" Roof boards	2,150	bd. ft.
Roofing	20	squares
2¼" Face finished floors	2,134	bd. ft.
1"x8" Shiplap sheathing	3,066	bd. ft.
Furring and grounds	250	bd. ft.
Waterproof paper over sheathing	26	squares
1"x3" Under gutter	44	bd. ft.
Coal bin partitions	150	bd. ft.
2"x8" Verge boards	213	bd. ft.
1"x8" Paneling exterior walls	107	bd. ft.

SHEET METAL

Gutters	60	lin. ft.
Downspouts	54	lin. ft.
Downspout heads	2	pieces
Elbows	12	pieces
Chimney flashing	14	lin ft.
Metal flashing	60	lin. ft.

MILL WORK

Closet shelving	94	lin. ft.
Chair rail; kitchen and bath	88	lin. ft.
Hook strip	150	lin. ft.
Base and quarter round	608	lin. ft.
Picture mould	300	lin ft.
Mantel shelf and brackets	1	piece
Medicine cabinet	1	piece
Breakfast alcove	3	pieces
Window seat	1	piece
Disappearing stairs to attic	1	flight
Kitchen cupboard	1	piece
Linen closet	1	piece
Exterior doors (frames and trim complete)	2	openings
Interior doors (frames and trim complete)	16	openings
Double doors (frames and trim complete)	2	openings
Basement doors (frames and trim complete)	8	openings
Windows (frames and trim complete)	9	openings
Mullion windows (frames and trim complete)	6	openings
Triple windows (frames and trim complete)	1	opening
Casement windows (frames, sash and trim complete)	4	openings
Mullion casement windows (frames and trim complete)	3	openings
Triple casement windows (frames and trim complete)	1	opening
Front entrance and door canopy and brackets complete	1	piece
Rear entrance and door canopy and brackets complete	1	piece
Rear porch steps and balustrade	160	bd. ft.
Brackets under bay window	2	pieces
Basement sash and trim complete	5	openings
Mullion basement sash and trim complete	2	openings

PAINTING

Exterior woodwork	30	squares
Interior woodwork	26	squares
Finished floors	15	squares

TILE WORK

Tile floor in bathroom	56	sq. ft.

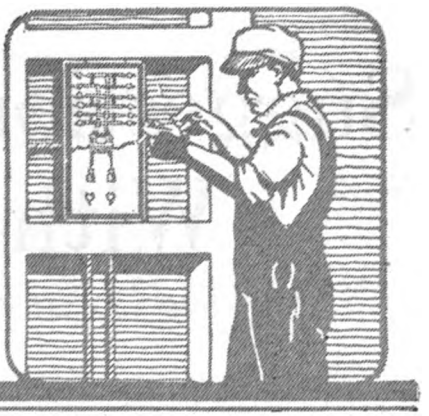
HARDWARE

4" x4"	Exterior door butts	3	pair
	Exterior door lock sets	2	sets
3½"x3½"	Interior door butts	19	pair
	Interior door lock sets	16	sets
3½"x3½"	Casement sash butts	13	pair
	Casement fasteners	13	pieces
	Casement adjusters	13	pieces
	Double acting door hinges	1	set
	Door bumpers	20	pieces
	Coat hooks	6	dozen
2½"x2"	Butts	18	pair
	Cupboard catches	13	pair
	Drawer pulls	12	pieces
	Basement door hardware	8	sets
	Basement window sash hardware complete	10	sets
	Sash locks	24	pieces
	Sash lifts	24	pieces
	Pulleys	96	pieces
	Top and bottom bolts	2	sets

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ELECTRICAL WORK

Wiring-Fixtures-Devices for Lighting and Power



Saving Money On the Wiring

USUALLY the general contractor does not give enough thought to the little things that will cut down the cost of sub-contractor's work. To save a few dollars on any one job does not seem worth while to bother about, but when the contract is for putting up fifty or more houses, as is frequently done nowadays, the item of a one dollar saving on each house amounts to considerable and is worth thinking about.

An important but often neglected item is the electric wiring. Talk the matter over with your electrician sub-contractor and have him carefully study and lay out different circuits. To bore holes through joists and studs for the BX cable to go through is slow work and the electrician's time must be paid and remember all that is figured in the bid given by this sub-contractor.

A little thought in arranging the circuits will enable them to run the BX conduit so as to save most of the drilling and cutting. The easiest way, of course, to apply the BX cable is to have it run up on studs and across on joists being simply held in place by staple fasteners.

This method means quick work and where adaptable should be followed. Use vertical runs in partitions rather than horizontal runs; it may mean the use of more BX cable but the saving in labor will more than pay for the extra material and still leave a handsome saving besides.

In brick buildings where the outer walls are furred, there is plenty of room left for the BX cable in back of the lath and it should be run vertically in this space then brought over between the joists for ceiling outlets thus saving practically all of the cutting and boring.

In cases where the plaster is to be applied directly on the brick or other masonry wall, it is wise when erecting such wall to allow chases for the BX cable as well as for plumbing pipes, etc. This can be easily accomplished by placing a piece of 1 x 2 wood directly on the inner wall surface and build the mason work around it. It is a much easier thing to do this than to laboriously cut down the chase from the solid masonry wall and still that is often the case on a great many buildings. Just a lack of foresight—but it adds to cost.

Branching off can be most economically done from ceiling outlets rather than from switch boxes on account of the more or less confined space in the latter. It may take 10 or more feet of BX cable to do it this way but it saves the electrician's time.

ECONOMY wherever possible is the duty of every builder whether he be doing speculative work or contracting on a cost plus basis. In these days of high costs he realizes this most poignantly in his labor items. This article takes up economies in electrical work from just that angle—saving money on electricians' time even at the sacrifice of a few cents' worth of material. It is a message for everyone who has to bear the expense of inefficiency in house-wiring.

Another time saving point is to allow an opening in the wall for the service feed to enter. It is very easy to imbed a ¾″ or 1″ iron pipe in the wall while it is being built, then a piece of lead covered wire can be easily slipped through. Just think, the pipe costs but a few cents compared with the work of an electrician hammering a star drill for over an hour!

In rooms having tile floors avoid putting the BX cable or conduit in the concrete base. There is usually a way of running it below the joists nearer the ceiling line rather than near the floor line.

Give a little thought to the switch boxes and know what you can get in advance. Fortunately today we can obtain shallow switch boxes which can be used in 2″ partitions. Therefore, when any such partitions occur, see that the right kind of a shallow switch box is specified to the electrical sub-contractor.

It has been a custom to have the circuits of each floor separate but it may be more economical to run the front part of the house on one circuit and the rear part on another, in this way getting more vertical runs instead of horizontal, thus avoiding a good deal of cutting and boring which is so expensive.

The practice of going over the proposed electrical circuits carefully with the electrical contractor will reveal ways in which a few dollars can be saved on each job and if you are building 100 houses there is a nice tidy sum of money to be saved by just your few hours thinking.

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Suggestions for House Heating With Substitute Fuels

By Charles L. Hubbard

THE anthracite coal strike now in progress definitely calls attention to the matter of substitute fuels. It would seem best, under present circumstances, to work for permanent improvement rather than simply to bridge over the immediate shortage.

An interesting and profitable way of considering this matter is to outline briefly what is being done by heating engineers toward putting the small house heating boiler on a scientific basis similar to that employed for power purposes.

Conditions Sought

The conditions sought in connection with the domestic heating problem are an uninterrupted supply of fuel, reduction in cost, better regulation of temperature, convenience, and cleanliness.

Some of these items will appeal more strongly to one person and some to another, according to circumstances, and efforts are being made to bring them about singly and in various combinations so as to benefit the greatest number of people.

First, let us take up these conditions in order and see what means of relief seem to be the most practical.

Continuity of supply would seem to demand a substitute for anthracite, in which case bituminous coal, the smaller sizes of anthracite, such as "pea" and "buckwheat", fuel oil, and gas are available.

Reduction in cost of raw fuel, at present prices, can only be obtained in the average case by the use of bituminous coal and fine anthracite. Any further economy must be secured through improved equipment and better methods of burning.

Regulation of the fire, so as to proportion the heat generated to that required to maintain an even inside temperature during all parts of the day and all seasons of the year, is both in the line of economy and comfort. This involves one salient fact. To prove satisfactory, such regulation must be automatic, and can only be carried out to its fullest extent in connection with gas and oil, although certain types of regulators used with coal-burning heaters, either under natural or forced draft, are of much assistance.

Convenience is a relative matter and varies with the fuel and type of equipment. It is most highly developed with gas as a fuel, next with oil, and to some extent with coal heaters of the magazine type.

Cleanliness can only be secured with gas and oil. Coal dust and ashes are always objectionable and have only been endured as a matter of necessity.

THIS is not the first time there has been an anthracite famine in our country. Experience has given us the means of combatting the shortage with other types of fuels. In this article, Mr. Hubbard takes up bituminous coal and small anthracite. A succeeding discussion deals with oil and gas.

OWING to conditions surrounding the anthracite problem, efforts to improve the house heating proposition have, for the most part, made use of substitute fuels by means of simplified equipment following the general principles applicable in power plants.

We may now take up these different fuels and show how they may be used to the best advantage, and in what proportion each may be made to fulfill the desirable conditions previously mentioned.

There are several major points that will bear discussion. Bituminous coal, the fuel to which we turn first, stimulates many arguments pro and con.

Bituminous Coal

A recent report made by the New England Governors' Fuel Committee states that about $70,000,000 could be saved annually, in that section, by substituting soft coal for anthracite for domestic purposes alone. To obtain the most satisfactory results with bituminous coal, three things are necessary, the right kind of coal, a furnace properly designed for burning it, and an understanding of the principles involved in firing.

What is known as low-volatile semi-bituminous coal should be used for domestic purposes. This comes in lumps, can be sized to correspond to anthracite, and would probably be put on the market in this form in ample quantity if there was a sufficient demand for it.

THIS can be burned without smoke, contains more heating value per pound than anthracite, and produces about one-half the ash. Fine coal, like dirt, is not suitable for use in domestic heaters, as it does not allow sufficient space for the air to pass through it and tends to produce gas explosions.

Heaters designed especially for burning soft coal are provided with a duct opening in the form of a slot over the rear of the fuel bed. Fresh coal is placed upon the front of the grate, and air supplied through the ash pit in the usual manner. This drives off the volatile gases, which are then burned over the bright fire at the rear of the grate, heated air for their complete combustion being furnished through the slot previously mentioned. In case of a round grate the supplementary air supply is admitted over the center of the fuel bed.

A heater of this general type is advisable for new installations, as it may be used equally well for anthracite coal by closing the rear air supply. After the gas has been driven off from the coal it is changed to

(*Please turn to page* 122)

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PAINTING

Practical Points of Interest to the Builder

A Color to Fit the House

By C. W. Ashworth

INDIVIDUALITY is, of course, an admirable characteristic. But there are times when personal likes and dislikes are not compatible with those of the neighbors. In house painting this is equally true. Read what Mr. Ashworth says about harmony and color schemes. His ideas are practical and to the point. Builders will find a lesson in them.

DIFFERENT color-schemes fit different types of houses. What would be a becoming paint treatment for a small house, for instance, might not look at all well on a large mansion. The effect might be just as disastrous as would be that of a tall, thin man's wearing a suit of vertical stripes, or a short, stout man wearing a checked suit.

Dignity must be the outstanding attribute of the large house. Stately, classical effects are always the most desirable for it. The radical effects that as certain color-schemes produce belong only to the small house—the cottage or bungalow type. Large mansions built of wood never look so well as when painted white, or a very light cream. If trimmed at all, a dull green goes best with the white, a soft brown with the cream.

A much larger choice of color-schemes is open to the owner of the small house. It may be painted all brown, with white or cream trimmings, or the lower half white and light grey with a dark red roof; light yellow with white trimmings, or the upper half a dull, brownish yellow. The pale buff house with light green shutters and white porch is effective. A low, Spanish type of architecture may have its stucco walls tinted a creamy pink and topped off with a red-tiled roof. A house built of brown shingles and having its roof painted a fresh, bright green, is very smart in the midst of environing foliage.

The small bungalow painted a dark red and topped with a roof of soft, dull green, presents a charming picture surrounded by a green lawn and bordered with flowering plants. Fascinating, too, is the white or cream-colored cottage with red roof and green blinds, that peeps out at you through closely clustering trees or over the top of a high hedge. There should be just a gleam of red geraniums or scarlet salvia bordering its porch and matching the bright red of its roof.

There is a bluish-gray paint that looks very well with white columns. But this color-scheme needs plenty of bright red flowers in window-boxes and all along its front, to set it off. An awning with dark red stripes would add further relief.

The house that stands in the open, with bright sunlight pouring full upon it, calls for quieter colors than the house that is enshrouded in foliage. The broad blaze of sunshine on bright colors is too dazzling. On the other hand, the house that nestles amid greenery needs to be painted in light colors, or it is lost to sight entirely. A paint color-scheme should blend with the landscape, but not be submerged in it.

No matter what the color-scheme, almost every house is improved by having its porch or door-canopy painted white. For the entrance is important, and should always be made distinctive—accented, as it were. Besides, white-painted columns, lattice-work or railing make the most effective background for vines or shrubbery. It is for this reason that pergolas and rose or grape arbors are usually painted white. Even a white door, in a house of almost any color, gives the whole house character.

Suburban homes that lie close to each other should have a certain similarity of coloring, without going to the extremity of monotonous sameness. The point is, that striking color-contrasts in close proximity give a neighborhood a "comic opera" effect.

On the other hand, there is nothing more depressing in its effect upon the beholder than a row of houses exactly alike in architecture and color. We want our homes to have a certain individuality, something to differentiate them from other homes. Differences in architecture, in a suburban neighborhood, are pleasing on the whole; but it is better to have a certain uniformity of color-scheme, provided that be in the more neutral tints.

An all-red row, for instance, on an all-green row, would be tiresome to the eye; whereas a group of cream or white houses, with different-colored trimmings, would have a restful effect in general, and yet present sufficient variety. For that matter, in such a row an occasional brown or light yellow house is not inharmonious.

The selection of paint colors, therefore, for the outside dress of the home calls for careful consideration, a certain amount of imagination, and the exercise of good taste. Remember, you are painting for no "private view," but for the great gallery of out-of-doors, where your achievement will be viewed by a multitude of people, every hour of the day.

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Delayed Interest Payments

By A. L. H. Street

PLEASE give me the proper practice in the following case," writes a New Yorker. "Several years ago I sold a two-family house, receiving one-half of the purchase price in cash and taking a mortgage for the balance, with six per cent. interest, payable semi-annually. Ever since the first interest payment became due, the mortgagor has delayed from 40 to 70 days in making payments. This occurs time after time.

"Is there anything I can do to insure prompt settlements? I have always mailed written notices to the mortgagor a few days before the interest due dates, advising him of the amount to fall due. The mortgage is made out on a standard form, containing a clause that 'the entire principal sum shall become due after default in the payment of any interest for thirty days after notice and demand.' Would mailing of such notice constitute notice and demand, or would that have to be made specifically thirty days after default, thus giving the mortgagor another thirty days in which to pay?

"The mortgagor is well to do, and is only holding out because he thinks he knows the law."

I advise that special notice be given the mortgagor to the effect that payments on due dates are demanded; that delays will not be allowed hereafter. Such notice is important as a means of depriving the mortgagor of ground for saying that because delayed payments have been customarily received the mortgagee has waived the right to prompt payment.

Then, if the next payment is not made when due, I advise that notice be given immediately that unless payment be made at once, the claim for the amount due as interest will be placed in the hands of an attorney for suit. This ought to bring a prompt settlement.

Legally, you can recover interest on the amount of interest payable for the time it remains overdue and unpaid. So far as a single interest payment is concerned, it would probably be cheaper to wait thirty or sixty days, until the mortgagor is ready to pay, rather than to sue. But if it is desired to force the mortgagor into a habit of prompt payment this is the most effective way of doing it. He is not apt to relish the idea of having a bill of costs incurred.

OUR Legal Editor is an expert on problems pertaining to this phase of building work. To obtain his assistance on your particular difficulty, simply send in the facts of your case. The service is free to subscribers to use as they see fit.

Under the mortgage clause referred to, I am of the opinion that the whole principal sum cannot be declared due under the advance notice of maturity of interest payments. But as soon as an interest payment falls due and remains unpaid notice of the default, or demand for payment, and of an election to declare the whole amount due, may be served. Then if the mortgagor continues in default for thirty days foreclosure proceedings might be instituted in an attempt to realize on the loan.

Validity of Verbal Agreements

IN the several states there is in force a law known as the Statute of Frauds. In substance, it provides that certain agreements shall not be enforceable unless reduced to writing (formal contract is not necessary) and signed by the person sought to be held. Among other classes of agreements, the statute applies to contracts for the sale of goods, where the price exceeds a certain sum (the amount ranges from $30 up in different states), and where there is no delivery or payment under the contract.

But the courts hold that the statute does not apply to agreements for special manufacture or setting of articles, as distinguished from a sale of so much sand or lumber of standard dimensions. And the Minnesota Supreme Court applied the exception in the case of Brown & Haywood Company vs. Wunder, 67 Northwestern Reporter, 357.

Plaintiff sued to recover damages for loss of anticipated profits, caused by breach of defendant's agreement that, in the event he should be awarded the contract for rebuilding a structure damaged by fire, he would award to plaintiff a subcontract to furnish plate glass, etc., for a lump sum of $3,100.

The only question raised before the Supreme Court was whether or not this oral agreement was invalid under the Minnesota Statute of Frauds. The court said:

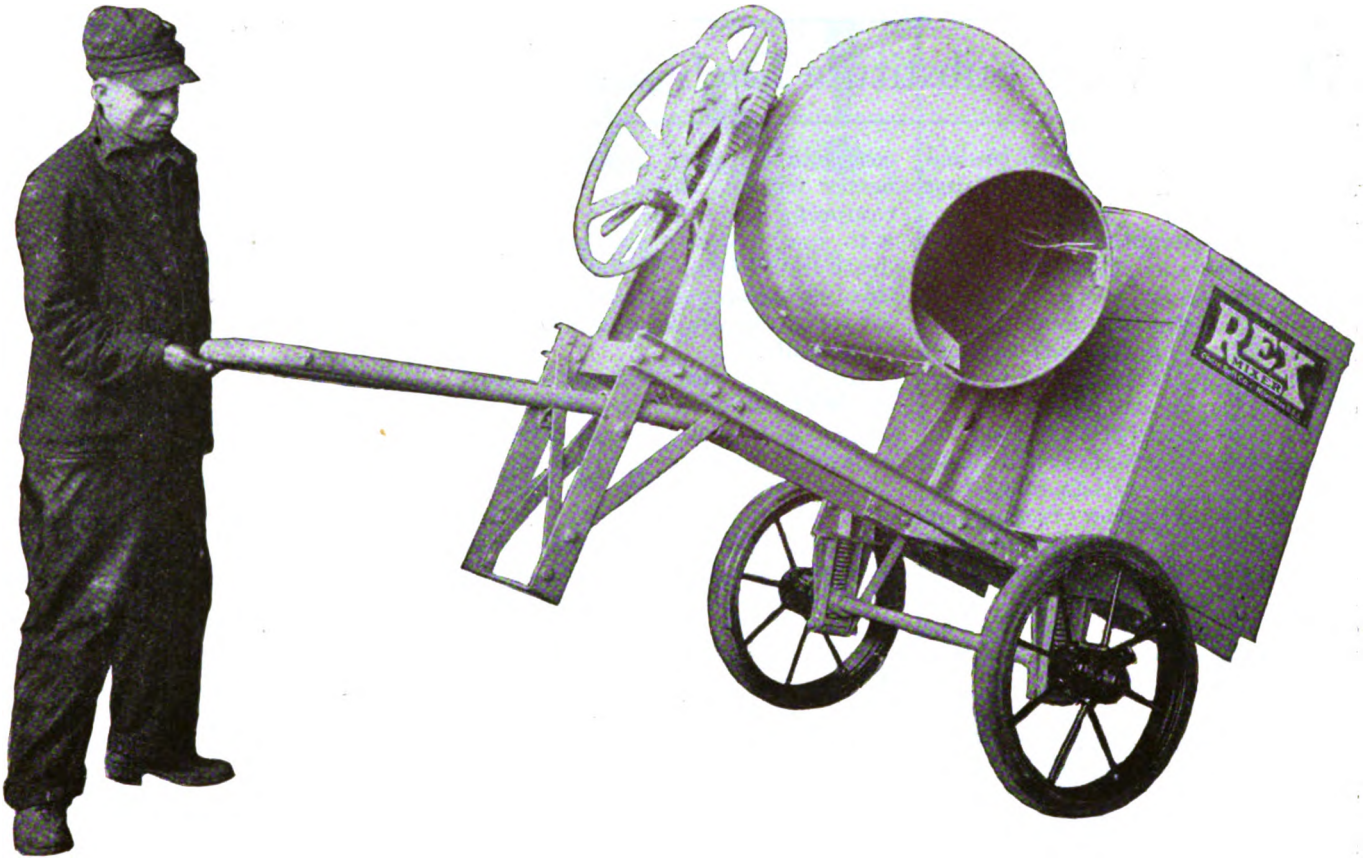
"It is contended by appellant [defendant] that the contract is one for a sale of goods and chattels, and therefore within the statute. We cannot so hold. In our opinion, it appears, from the evidence, to be a contract for the manufacture of articles of special and peculiar design, not suitable for the general trade. Such a case is not within the statute. . . .

"The testimony tends to prove that, in the usual course of business, the glass is carried in stock in sheets of standard sizes, and is cut up to fit the particular sash frames. . . .

"Not only was this a contract to manufacture articles of a special and peculiar design, not suitable for the general trade, but it appears from the contract that the glass was to be 'set complete in place.' Then it was a contract to make improvements on the land, to erect portions of a building attached to the realty, not to sell chattels. Such a contract is not within the statute."

Many cases of this kind are settled by the Statute of Frauds.

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Counterbalancing Saves Time and Money on the Job

The engine of the half-bag Rex Tilter is set behind the axle. This counterbalancing makes the shaft end of the machine exceptionally easy to lift. This one feature alone saves the contractor many dollars during the course of a single day. The tilter can be moved anywhere quickly. It can follow the finished work closely so that the concrete has to be wheeled but a short distance. The use of certified malleable castings in place of heavy brittle cast iron pieces, wherever possible, makes the tilter stronger and also lighter. This is another reason why it is so easy to handle. If you want to know more about this machine, or are interested in mixing machinery for any size or type of concrete job, check the coupon below for the catalogs you need.

REX MIXERS

CHAIN BELT COMPANY

723 Park Street — *Milwaukee, Wisconsin*

CHAIN BELT COMPANY
723 Park Street, Milwaukee, Wisconsin

Please send me—The REX Tilter Catalog ☐
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Name.....

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Heating With Substitute Fuels

Continued from page 118

carbon or coke, and is then pushed to the rear of the grate before firing more fresh coal.

If a heater designed for anthracite is already installed, the same method of firing should be practiced as above described, except air must be admitted above the fuel bed through the slide in the furnace door instead of at the rear of the grate.

This does not give such good results, but with special care in firing will prove quite satisfactory, particularly with narrow rectangular grates of considerable length. In any case it is not well to cover more than one-half the grate with fresh coal at one time, as there must always be an ample amount of bright fire to burn the gases as they are driven off.

Soft coal fufills the conditions of dependability (as compared with anthracite) and lower cost. So far as regulation, convenience and cleanliness are concerned, it can claim no advantage and in some ways it is inferior.

Small Sizes of Anthracite

From 35 to 40 per cent of the anthracite coal produced breaks up in the process of mining and handling, into sizes smaller than "chestnut". and cannot, therefore, be put upon the market at regular prices.

This forms the grades known as "pea", "buckwheat", "rice", etc. and is ordinarily disposed of to power plants in competition with soft coal for mixing with the latter or for burning alone with mechanical draft.

For this reason there is always an ample supply on hand, at prices from $4.00 to $7.00 per ton less than the standard domestic sizes of anthracite, which include "nut", "stove" and "egg". Pea and buckwheat coal contain as much heat per ton as the larger sizes, but in order to use them to advantage special grates must be provided to prevent the smaller unburned particles from falling into the ash pit.

Furthermore, as fine coal packs more closely, a shallower fuel bed or mechanical draft is necessary in order to secure thorough combustion.

There are three general methods of utilizing fine anthracite, as follows—First, by mixing with larger coal and burning in an ordinary heater without change; second, by equipping the usual type of heater with special grates and mechanical draft and burning all fine coal; and third, by the use of heaters designed for using this grade of coal with natural draft.

In the first case, it should be used in about the proportion of one ton of pea to two of stove, and one of buckwheat to three of stove for ordinary natural draft. The best results are obtained by using the fine coal for banking the fire at night and at other times when a rather mild and steady heat is desired.

FOR a quick and hotter fire, use less fine coal as this checks the draft. Never cover the entire surface of the fuel with fine coal; first pull a portion of the fire forward and place the fresh fuel at the back, leaving at least one fourth of the fire bright, just inside the furnace door. This causes the gases to burn as fast as they are formed and prevents small explosions that might otherwise occur. These, however, are not usually serious, but may blow open the fire door and fill the basement with gas and dust.

The design of grate bars in forced-draft boilers is such as to prevent the fire coal from sifting into the ash pit, and it is also constructed in such a manner as to distribute the air to all parts of the fuel bed without excessive draft pressure.

The motor driving the blower may be operated automatically by changes in steam pressure, water temperature, or room temperature as may be desired, so that forced draft is in use only when required to produce the necessary amount of heat.

The same form of equipment is furnished for the round boiler so commonly used in house heating. Another arrangement of this general type makes use of a fan placed in a by-pass of the smoke pipe, in which case an induced draft is obtained, similar to that produced by a chimney. With both methods natural draft is utilized to the fullest extent. Within the last year or two efforts have been made, partly by the producers of anthracite, and partly by manufacturers of equipment, to promote the use of these small sizes for domestic purposes.

Watch for the second and last installment of this consideration of substitute fuels.

How Americans Live

Continued from page 87

kitchen. The laundry, just off this room, features labor saving devices.

The mistress' bedroom is included in the first floor plan and this is connected with the nursery above by a convenient staircase. Each of the three master bedrooms is equipped with a complete bath while the servant's room has its own bath attached. In conjunction with the sleeping rooms, each suite is provided with a private dressing room.

Carl Otto of New York City was the architect and the one to be credited for the unusually fine rendering.

The manufacturers and Associations who have contributed to this demonstration home are as follows:

American Radiator Co., New York; Buffalo Co-operative Stove Co., Buffalo, N. Y.; Cleveland Heater Co., Cleveland, O.; Copper and Brass Research Assn., New York; The Crane Co., Chicago; Detroit Stove Works, Detroit, Mich.; Domestic Electric Co., Cleveland, O.; General Electric Co., Schenectady, N.Y.; General Fireproofing Co., Youngstown, O.; General Gas Light Co., Kalamazoo, Mich.; General Motors Export Corp., New York; The H. B. Ives Co., New Haven, Conn.; Maple Flooring Manufacturers Assn.; Chicago; National Lead Co., New York; N. Y. District Common Brick Assn.; Pratt & Lambert, Buffalo, N. Y.; U. S. Gypsum Co., Chicago, Ill; Westinghouse Electric & Mfg. Co., E. Pittsburgh, Pa.; Yale & Towne Mfg. Co., New Haven, Conn.; The Stanley Works, New Britain, Conn.; Home Owners Service Institute, New York; Walker Dishwasher Co., Syracuse, N. Y.; Shapiro & Aronson, Inc., New York; Louis Bossert & Co., New York; Geo. W. Blabon Co., Wm. Buchanan; Electric Co., Joseph Elias Co., Fitzgerald Mfg. Co., Gainaday Co., Goheen Corp. of N. J.; Frary & Clark, Renulife Electric Co., H. A. Wilson Co., Abraham & Straus, Inc., Brooklyn, N. Y.

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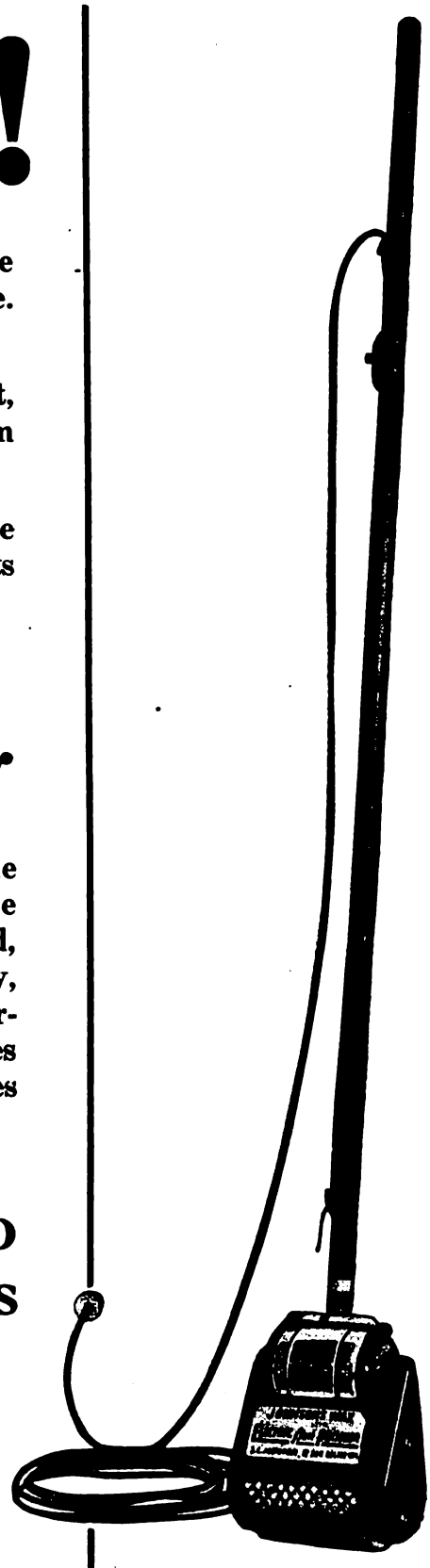
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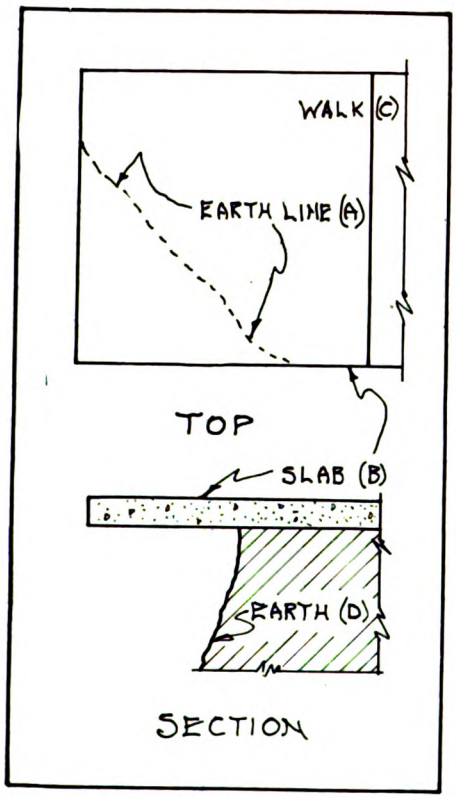
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On the Job with the Construction Editor

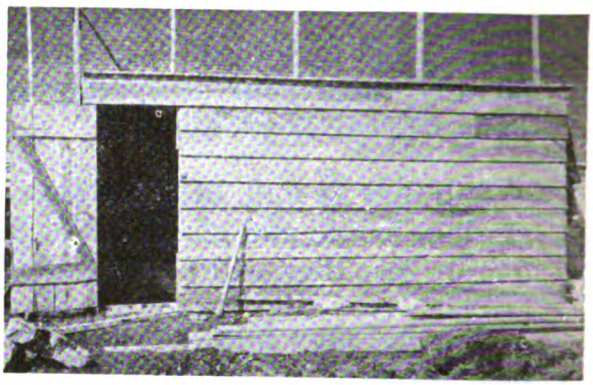
Safety First

MOST contractors carry, and all should carry, accident and liability insurance so that they are protected against damage suits in case accidents occur on the job. No builder, however, cares to have accidents happen on his job, even if he does carry insurance.



In the writer's opinion, the contractor on whose job this picture was taken was actually inviting an accident to come over to his place to happen. If any one should happen to walk on the cement slab shown here, there is every likelihood that the slab would fall into the excavation, carrying the unlucky pedestrians along with it. Here is a warning to all contractors to watch instances of this sort.

An accident followed by a damage suit will soon put the builder in a regrettable position.



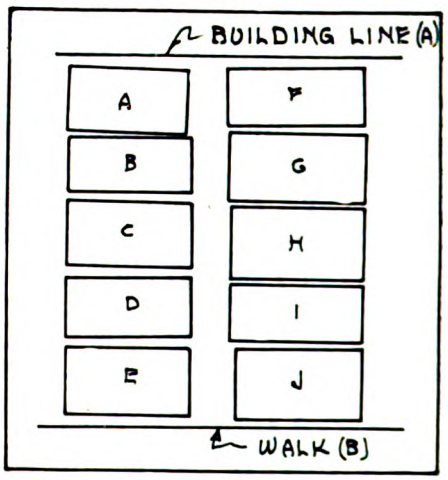
THERE is plenty of work to be done this winter in every section of the country. Builders I meet on my travels tell me that work is going forward at a great rate. Here are a number of short cuts that may help you.

Sincerely,

Roy A. Singer.

Contractor's Shanty

THIS contractor's shanty, used by F. A. Taylor, of Kansas City, Mo., may be easily and inexpensively built. It is erected on a framework of 2x4", and the sides are boards lapped about one inch and a half. It is not a beautiful building but a handy one for all year 'round storage purposes.



Care in Storing Terra-Cotta Trim

A GOOD deal of time may be easily wasted on the job by the improper storage of the exterior trim. Not only may time be wasted, but also the trim may be damaged due to chipping. Builders may well take a tip from the man on whose job this photograph was taken. The building was erected with terra-cotta for exterior trim and when the trim was delivered on the job it was carefully laid out, piece by piece, in the space between the building and the walk.

While this required a bit of labor when the trim was delivered on the job, and also required that a good deal of space be given over to no other purpose than the storing of terra-cotta, nevertheless, money was saved in the long run.





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Residence of Paul Witaschek, 335 N. Van Ness Avenue, Los Angeles, Calif.

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The prominent architect who wrote the letter printed above is typical of the architects who have found out for themselves that the Carey Asfaltslate Shingle does mean more satisfactory results.

Send us the coupon today and we'll forward samples and complete information.

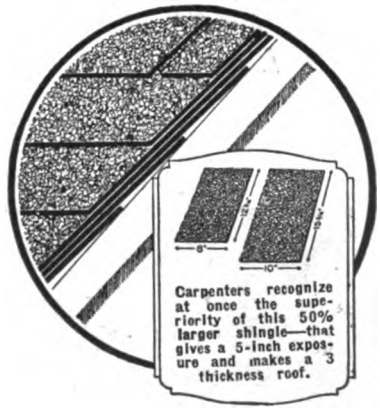
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It seemed the logical thing to do to put on the Carey Asfaltslate Shingle. We never heard of any other shingle that could compare with this one, because it is "the Shingle that Never Curls." There may be other shingle features as good, but we do not know about them. We wanted permanence and beauty, and we have both in large measure.

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This is one of a series of statements by leading builders.



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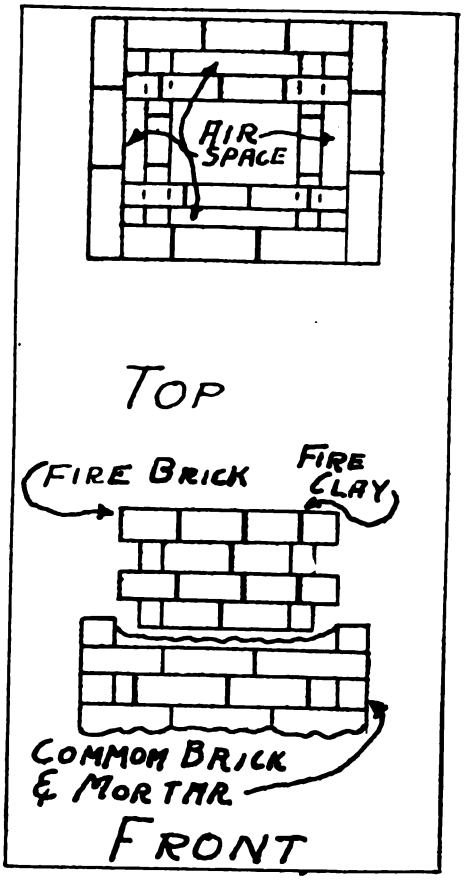
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On the Job with the Construction Editor

Fire Protection for Chimneys

THOUGH it is not generally accepted as a fact, a builder can do a great deal to lessen the fire hazard when he

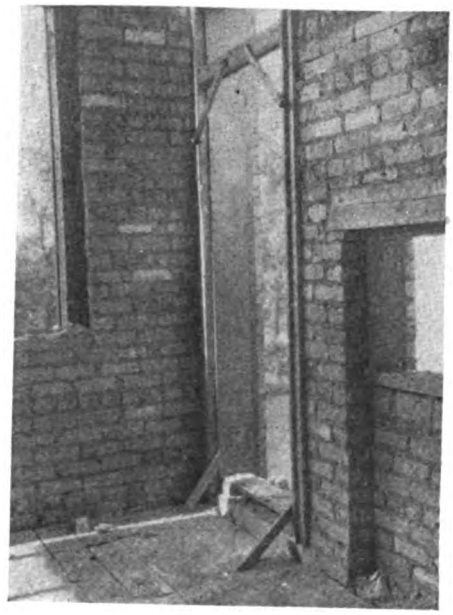


is constructing a building. Take the matter of chimneys, for instance. Many large fires have been caused by defective chimneys; chimneys that leaked, or were improperly erected.

In the illustration shown here is a chimney for a large apartment building, built according to the Chicago building ordinance. The chimney consists of an outer shell of common brick, with an inside chimney of fire brick, an air space being left between the inner and outer shell. It is the air space that does the work.

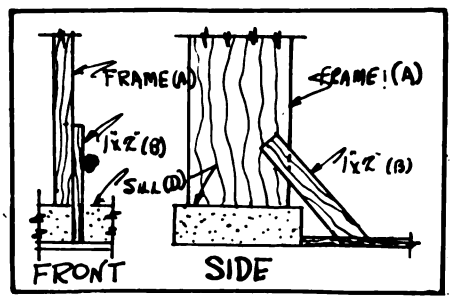
In erecting such a chimney as this, it is essential that the inner shell be laid up in fire clay, and the outer in cement mortar.





Holding a Door Frame in Place

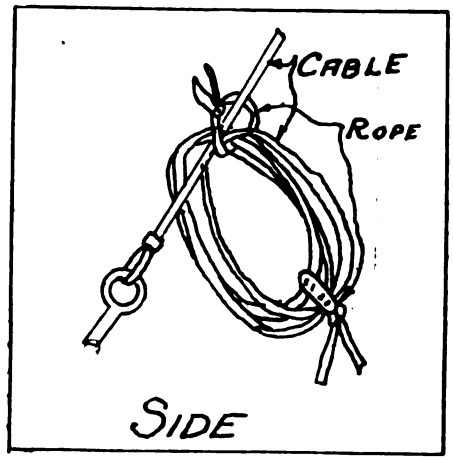
IN THE illustration shown here is one method of holding a door frame temporarily in place until it can be permanently installed. It consists of running a small piece of 1x2" from the frame to the



floor, thus holding the base of the frame tight to the sill. Where the frames are set after the walls are erected, there is no use for this "kink" but where the frames are set before the walls are built, this idea will be found an aid to holding the frames in place and rigid.

One Way of Handling Guy Wire-Ends

THERE are two ways to handle guy-wire ends. One is to roll them neatly, as shown, and the other is to let them

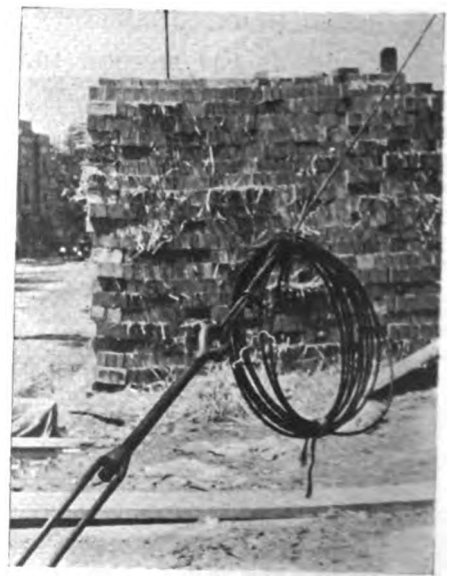


fall where they may, spreading all over the place, becoming kinked and damaged, and a constant source of annoyance.

There are more reasons than one for rolling the loose end excess carefully as shown here. First, the wires will not be kinked. This is important, for kinked guys are hard to handle and exceedingly dangerous, due to being weakened by kinking. Another reason is that the wire neatly rolled does away with the nuisance of tripping everyone who comes along.

It takes but a moment or two to roll the wire as shown, and it is well worth while spending the time to do it.

This is one of those little kinks that do not seem so important in themselves. Added to others, though, they mount up to many hours of economy each year.



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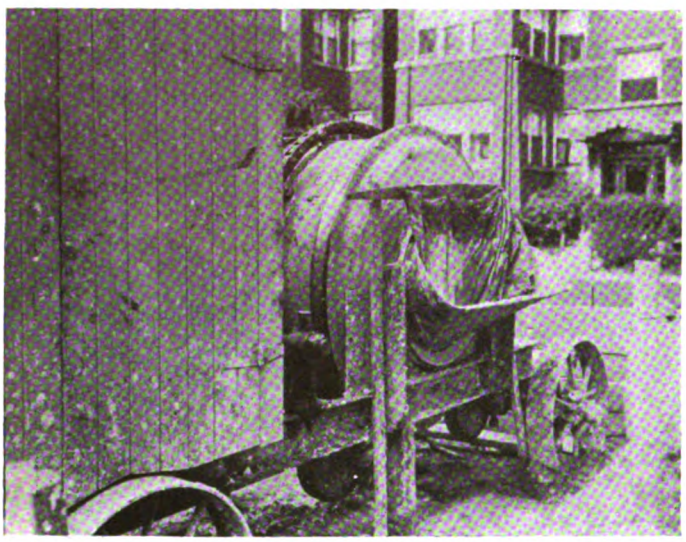
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On the Job with the Construction Editor

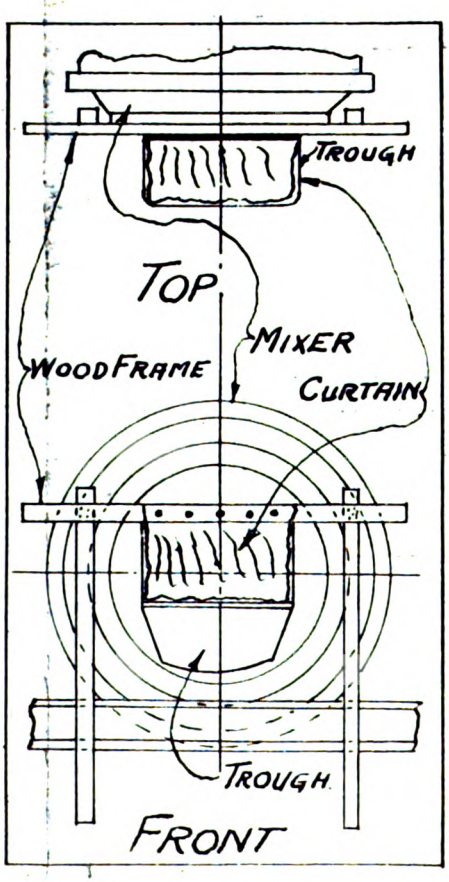
Splash Prevention for a Mortar Mixer

WHEN an extremely wet mix is turned in a mortar mixer the result is apt to be a bit messy, as anyone who has ever tried it knows. There will always be more or less splash from the discharge end of the mixer, especially if the machine is not designed for mixing mortar only.

The owner of the mixer illustrated in this article was an enterprising fellow. He arranged to stop the splash, and accomplished the desired result with little or no expenditure. He simply erected a wood frame in front of the mixed and hung in a burlap curtain in front of the discharge opening. When the load was dumped, the trough tilted, thus allowing the curtain to fall free from the opening.

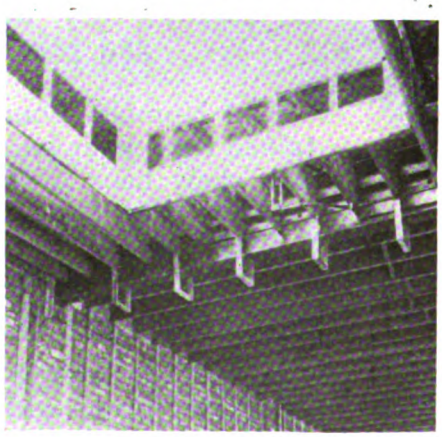


You may have seen jobs where a wet mix was being handled without protection. Very often in these cases the mixer takes on an actual coat of concrete greatly to its detriment.



Furring for a Steel Beam

IN the illustration shown here it was necessary to furr out a steel beam so that the impression of a deep beam would be provided. This was done as shown in the sketch.

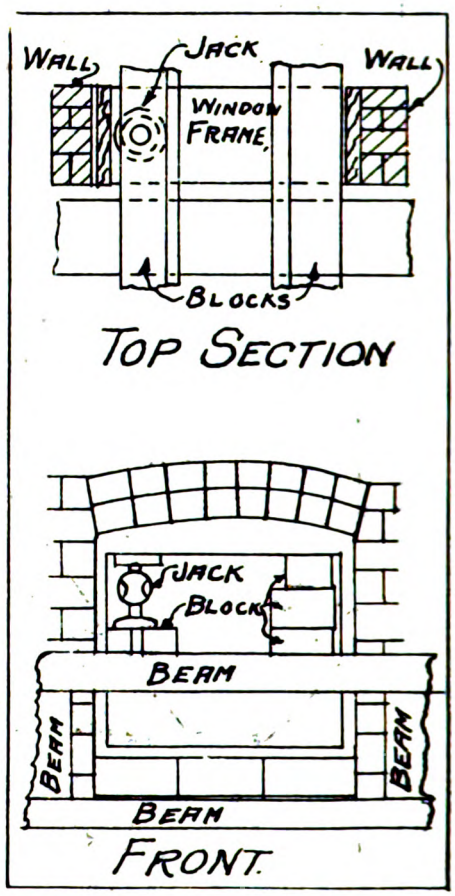


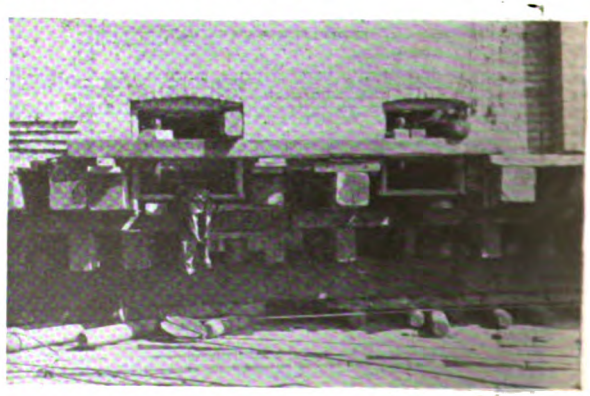
Furring strips of 1"x2" (C) were nailed to the under side of the joists and held apart at the bottoms by another 1"x" (D). This was done continuously along the full length of the beam and lath nailed to the furring strips.

The result gave the desired effect in a manner much more simple than the ordinary method of doing it.

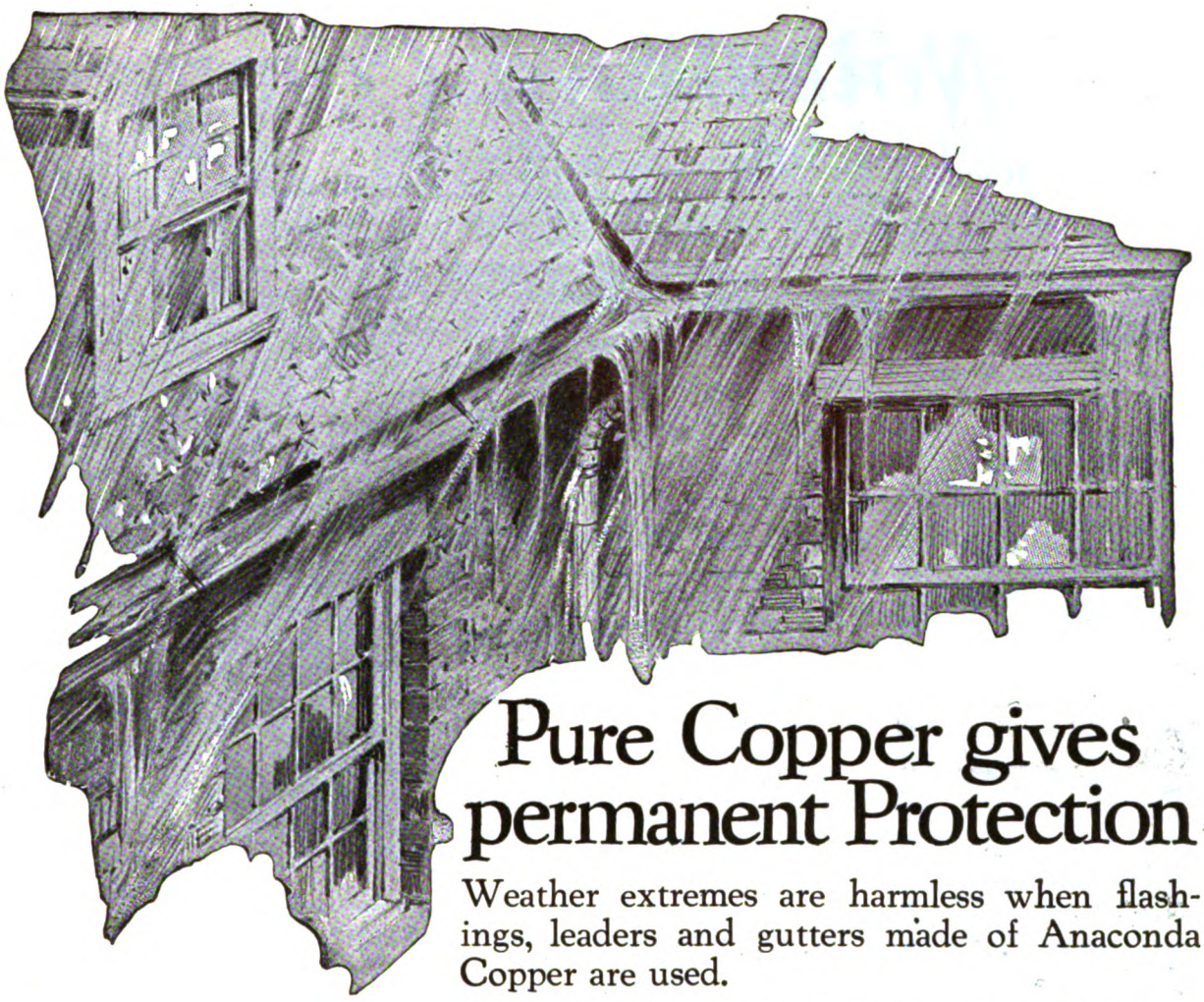
A Tip for the House-mover

HERE is a way for carrying the arch of a brick wall while moving a building. As will be seen from the illustration, the base of support is a long timber running parallel to the wall, and carried on the transverse timbers which run across the building. The under side of the arch is then supported by jacking and timbering run from the parallel timber. Notice that where blocks were used to carry the opening, wedges were used to make a tight job.





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News, Notes, and Comment

Remodeling Job Receives Commendation

A NOTEWORTHY example of building improvement work was recently completed in the downtown district of New York City. Illustrated here are photographs of the building at 245 Broadway, before and after the architects, Chas. N. Whinston & Bro. prepared the plans that turned a familiar "eyesore" into a substantial and attractive downtown office building.



Its front, constructed of relatively inexpensive terra cotta, presents an unusual proportion of glass area. Skillful planning has produced a store 11′ x 100′, a main hall, 13′ x 25′, and in the rear an attractive lobby store, 13′ x 40′. To effect the maximum width of plate glass for the stores, the front wall above the second floor is carried on cantilever beams so than an 8 inch marble form on the front can be removed if desired without affecting the stability of the structure.

By the introduction of a side court, 7′ x 15′, light, airy offices, public toilets and corridors have been combined to dispose of ground area in an efficient manner.

In recognition of this remodeling job an organization known as the "Downtown League" made public announcement, giving it first honors for 1924. This league has been in existence for about six years and annually calls attention to the remodeling job that has done the most to improve this older section of New York City.

At the right is old uninviting building, while at the left is seen the effect of remodeling it. The result of this job is startling to say the least.



Santa Barbara Architects Speak

IN a bulletin of the Allied Architects Association of Los Angeles they tell us something of the Santa Barbara earthquake from their standpoint. The bulletin is a compilation of the opinions of many of the well known Pacific Coast architects and presents in treatise form the underlying causes and salient results of the "shake."

Mr. Vern D. Hedden, Ex-Chief Building Inspector for Long Beach, shows that "the obvious lesson is adequate design of ample connection erected under the constant and personal supervision of trained men . . . the Building Codes should place the responsibility of structural design in the hands of competent men having no interest in the cost of the work . . ."

L. L. Pope, Building Inspector of Santa Barbara, concludes that "the earthquake period has brought out the fact that in the designing and construction of buildings, their strength and rigidity to withstand all shocks and strains should be paramount.

"It is quite encouraging to see a monument of strength practically untouched by one of the strongest and strangest forces that nature can exert, and it proves the fact that properly constructed buildings can withstand earthquakes."

All of the architects and engineers who have expressed their opinion in this bulletin conclude that properly designed and constructed buildings can be built that will withstand the tremors of the earth. These opinions are well worth while considering the fact that they have come from men who know the physical conditions of that section and are able to decide just what are the best principals of good building practice.

Near East Building Boom

WHETHER or not the present building boom in this country has had any influence on the Bible Lands is questionable. It is a fact, however, that after a period of 10 years of decadence, building conditions are changing. To date 2,500 new villages have been built by refugees in Macedonia.

As a result of this boom there is a marked demand for the skilled artisans and to meet these conditions the Near East Relief are supervising the training of orphans for the trades.

On Syria, one of the islands of the Aegean Sea, 2,500 orphans are quartered in buildings which they themselves helped to construct with the aid of refugee labor. Six dormitories, a bakery, a public bath, schools and work shops afford ample opportunity to train boys in every phase of building from quarrying stone (found on the island) to the installation of electric lights.

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This book is really a Free Trial Lesson in Plan Reading . . . written by a practical building expert. It costs you nothing . . . will teach you how to read Blue Prints . . . and may point the way for you to big money. It will show you how easy our instruction is . . . how quickly you can become an expert . . . can get the practical knowledge that you must have to get ahead quick.

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Chicago Technical School for Builders is one of the oldest and best equipped schools of its kind in America. Many big builders owe their first step to success to our training. Hundreds of practical men from the building trades attend our day and evening classes at our school for builders here in Chicago. You get this same training . . . from the same practical instructors . . . in your own home by mail.

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News, Notes, and Comment

Ton and Pound Steel Prices Outlawed

ON Aug. 26, 1925, the Structural Steel Board of Trade, Inc., New York City, adopted by unanimous vote a resolution that after Nov. 1, 1925, members of the association will refuse to bid on the fabrication of structural steel on the basis of the ton or the pound price. Bids hereafter will be in lump sum form and none will be given until estimators are furnished with proper plans and details.

On Sept. 28th a committee was appointed to prepare a statement as to what shall be considered essential in plans and details in order to enable the fabricator intelligently to make an estimate. The committee is also to provide a workable method for taking care of the few exceptional cases when proper plans and details cannot be supplied at the time the steel contract is placed. The committee consists of three structural engineers and representatives of three fabricating companies. The engineers are H. G. Balcomb (Chairman), C. P. Jepperson and S. F. Holtzman. The fabricators are J. Lewis Hay, George Lund and Jacob Loewenstein.

The scheme of bidding by the ton, or pound, usually the latter, was pushed very strongly by the railways a few years ago, when they wanted to buy a large number of bridges before the designs were completed. It enabled the purchasing agent to get a low price on what looked like a large volume of business. The arrangement did not work out always in a satisfactory manner. It happened frequently that certain items would be cancelled and certain others would be changed. Fabricators were never certain as to what they might be expected to furnish.

The idea spread to building contracts, especially the larger work done on a percentage basis. Purchasing agents obtained what appeared to be low prices. Plans not being ready when bids were received the fabricators bid on the supposition that the buildings would be of a certain type indicated to them. The contract awarded, mill orders were placed and yard stocks were increased in order to push the fabrication when the plans and details came in.

Not all buildings are alike, however, and in innumerable cases the fabricators guesses were shown to be wrong on sizes when the details finally appeared. It happened frequently that heavy work that had been estimated as probable became finicky truss and frame work when the designers got busy. The experience of bridge contractors was duplicated by building contractors and the matter is considered to be highly unsatisfactory.

Mill prices are becoming stabilized because of the stabilization and standardizing of mill costs and production. The fabricators have concluded that as the gambling element is being taken out of mill prices it is well to get their business on to a scientific basis in the hope that it may be more profitable. The outcome of the experiment will be watched with interest. It will be a success if all the responsible men in the industry are honest with each other. The action does not contemplate any move towards fixing prices, being intended merely to get the industry into good business habits.

Russian Prize Home Contest

THAT Soviet builders are appreciating the importance of the housing problem is evident from reports coming over from Russia. Recently a contest has been announced which will constitute a review of the developments of Soviet builders in the housing of workmen. The sole judge will be the public opinion of the country. Quite real solutions are expected in regard to planning and construction and above all it is hoped that effective utility of cheap and easily obtainable materials will result.

The drastic condition of the market on building materials has caused Soviet architects and builders to turn particular attention to economical supplies.

Briefly, there are three types of houses from which the selection will be made. (A) two-story house accommodating 8 to 16 families. (B) the ordinary block type of house with no less than three families on each of two floors. (C) a three or four-story fireproof house with central heating, not less than three entrances.

Conditions to be considered in judging best designs must take in illumination, heating, waterproofing, storage space, kitchen facilities, etc.

Electrical Cooperation

THE National Electric Light Association is cooperating with different electrical clubs, central stations, etc., to boost greater use of electricity. Builders can "cash in" on this to quite a considerable extent by cooperating with their local electrical clubs. Show them that they are putting in all necessary wiring so that the different electrical appliances, fixtures, etc., may be properly attached.

Mr. A. L. Loughborough of the Western Electric Company states that Cincinnati is well organized to cooperate with the Industrial Lighting Committee of the N. E. L. A. and that the Cincinnati Electric Club heads this organization with the full cooperation of the central station, electric supply manufacturers, jobbers and contractors. It will pay any building contractor to be in touch with the local organization.

A Word on Bats

THIS is not a discussion on brickbats, nor baseball bats but on the kind that live in belfries.

It seems that the bat is the sworn enemy of mosquitoes and the mosquito the twice-sworn enemy of man. Neither needs be trained to carry on the struggle but Dr. C. A. Campbell of San Antonio, Texas, says that by providing for the comfort of bats, he can increase their number. Hence, extermination of mosquitoes.

The complete annihilation of these pests will directly benefit the builder. All aside from its greatly decreasing mortality through yellow, typhoid and malaria fevers, it will greatly enhance the value of certain sections of the country that are now all but uninhabitable—good building property but now under the tyranny of that infernal nuisance, the mosquito.

To return to bats and bat colonization, Dr. Campbell has published in book form, his description of bat life, homes, habits, enemies and intelligence. His experience has been rich and this compilation is of great significance to builders interested in reclamation work. The book:

"Bats, Mosquitoes and Dollars," by Charles A. Campbell; Cloth bound, 261 8x12 inch pp, Illus., The Stratford Co., Boston, Mass. Price $3.00.

New Technical Data

"CONDITION of the Floors after Continued Service," by Karl H. Geister, Industrial Fellow of the Mellon Institute of Industrial Research of Pittsburgh has presented a compilation of data on various types of industrial floors.

It is shown that the conditions under which floors may be impaired (In this case in hospital work) are as follows:

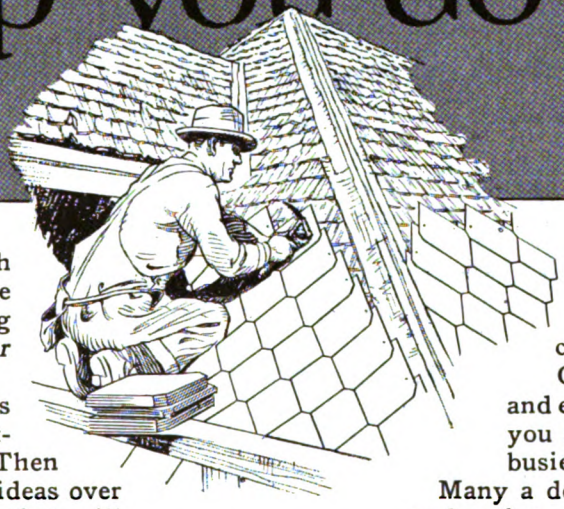
(1) Wear (2) Heat (3) Sunlight (4) Moisture (5) Chemicals (6) Defective Installations.

The results are presented in tabular form and represent valuable treatise for all users and purchasers of industrial floors. **Copies of report available.**

The report of D. Knickerbacker Boyd, Consulting Architect of the Structural Service Bureau of Philadelphia, on "Promotion of Knowledge of Brickwork" has now been reprinted. The report deals with the performance of the wall versus individual brick. Mr. Boyd discusses the difficulties encountered in establishing tests giving information and which can be best recognized for actual use in buildings. It is more important, he points out, to know the resistance of any building material to freezing and thawing, especially in climates where severe winters are encountered, than to determine any theoretical limits of absorption. **Copies available: Otis Bldg., Philadelphia.**

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We show you how to increase your roofing business — and help you do it



BY ACTUAL field-work with Eternit dealers throughout the country, we've learned selling methods *that will increase your roofing business.*

Our plan is to give live dealers exclusive territory. Then we outline our practical selling plans. Then we work with them to put these ideas over and build up a roofing business that will be sure to grow and become increasingly profitable.

You get exclusive territory on a quality product that is priced right. Eternit Rigid Asbestos Shingles are easy to sell because they make beautiful roofs that are storm-tight, fire-proof and wear-free. *Yet they are priced to let you go out and get business against substitute roofing competition.*

To help you close sales quickly and easily, we have a financing plan that, when desired, lets you sell roofs on an easy-payment plan. With it you land business that would otherwise get away from you and you don't have to carry the accounts on your books.

Our national advertising—big color pages in the finest magazines—is constantly working for you. Our prompt shipping service and enormous reserve stocks keep you amply supplied even in the busiest seasons.

Many a dealer has started in with an order for a few squares of Eternit Shingles and found it the starting point of business that soon mounted to carloads. There is the same opportunity in your territory and now is the time to take advantage of it. Send in the coupon today.

Eternit

Reg. U. S. Pat. Off.

RIGID ASBESTOS SHINGLES

Make your first roof last

Ask about Eternit Asbestos Building Lumber—the same materials made up in sheet form.

AMERICAN INSULATION COMPANY
Roberts Ave. and Stokley St., Philadelphia, Pa., *or* Hibernia Bank Building, New Orleans, La.

Send me details of your exclusive sales plan on Eternit Asbestos Shingles.

Name.....

Business.....

Address.....

City.....State.....

We can give you more definite information if you will also tell us what kind of roofing you now carry.....?
And whether you buy in C/L or L/C/L.....?

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USEFUL CATALOGS



Steel Casements have decided advantages in modern construction. Copper steel casements have found an attractive place in the construction of small homes as well as larger structures. Builders may address inquiries to Truscon Steel Co., Youngstown, Ohio.



PLUMBING
Modern Methods and Equipment

Water Systems and pumping plants for the farm and home should be given thoughtful consideration by the builder who is to install them. A full description of a self-oiling electric water system for such installation is presented in a booklet of the F. E. Myers & Bros. Co., Ashland, Ohio.

Doors of distinct design and cabinet shop construction are illustrated in a catalog of the Paine Lumber Co., Ltd., Oshkosh, Wisc. The doors are made in both hard and soft woods.

Concrete Mixers prove their value to the contractor by their speed on the job and the ease with which they can be moved. A detailed description of mixers run either by steam or gasoline engines is contained in a catalog of the Koehring Co., Milwaukee, Wisc., which builders may well add to their files for ready reference.

Inter-Phones means a saving of time and effort and make good sales points. Data on systems and installation are contained in a catalog of the Western Electric Co., New York.

Concrete Surfacing is an important item in the finish of the concrete structure, and a device that is electrically operated is described by the Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, Ohio.

Ventilators comfortable to all weather conditions and that can be installed at reasonable expense are described in a catalog of the Globe Ventilator Co., Troy, N. Y. Special types for barns, stables, creameries and silos are included in the illustrated list.

Asbestos Shingles eliminate repair bills, add to the resale value of the house, and combine utility and beauty with moderate cost. Artistic effects that may be created with this type of roofing in many colors and designs are described in a booklet distributed by the Asbestos Shingle Slate and Sheathing Co., Ambler, Pa.

Wall Board that is durable, slightly and easily handled forms one of the best and most economical methods of achieving decorative interior results. Wallboard plaster board, and prepared roofing suitable for the most exacting usage are illustrated in a booklet of the Beaver Products Co., Buffalo, N. Y.

EVEN a public library cannot offer the references that the builder needs so often in planning and building work. Only his own catalog file, with illustrated descriptions and specifications of a thousand-and-one products, can give him the information when and where he wants it. Now is the time to see that references are up-to-date—before the need becomes one of too great importance. Write today to the firms direct or to this department.

Heating Equipment conforming with with the highest standards of modern construction is pictured and described in several booklets and catalogs published by the United States Radiator Corp., Detroit. Builders of residences will find the booklet entitled "A Modern Housewarming" an interesting and valuable aid.

Plastering Fibre provides great strength and is obtainable in uniform quality. Plasterite, a product that is guaranteed to save 40%, is manufactured and described by Plasterite Company, Plymouth, Mass.

Iron Work for Buildings of all descriptions is illustrated in catalog No. 67 published by the Fred J. Meyers Co., of Hamilton, Ohio. Bank fixtures, grilles, panels and elevator enclosures are only a few of the items listed and which make this catalog a necessity to every builder.

Sidewalk Vault Lights must be able to withstand severe usage. A most interesting circular on this subject is issued by the American 3 Way-Luxfer Prism Co., 1305 S. 55th St., Cicero, Ill.

Building Instruction by mail, including practical lessons in plan reading, estimating, superintending and building construction, is afforded by the lessons of the Chicago Technical College, 118 E. 26th St., Chicago. Literature and a sample lesson will be mailed on request.

Insulation of the home should receive attention at this time with cold weather in order. Houses warmed by insulation show a saving in the coal bill and provide a safe, dry place to live. A description of a scientific insulator that forms real protection for the house is found in a booklet of the Samuel Cabot Co., 141 Milk St., Boston.

Composition Flooring serves an admirable purpose in schools, churches, public buildings, and finds many uses in the home. A seamless product, eliminating dirt, is presented in the catalog of Everlasbestos Flooring Co., 95 North St., Rochester, N. Y.

House Moving is a profitable undertaking, and with the necessary equipment many old houses that would otherwise be torn down can be salvaged by the enterprising contractor. Trucks and capstans fitted specially for this work are illustrated in Catalog "E" of the La Plant Choate Mfg. Co., 3025 First Ave., Cedar Rapids, Iowa.



CONTRACTING EQUIPMENT
Reliable Information on Time and Labor Saving Devices

Scaffold Brackets increase your margin of profit by saving time, lumber and money. Brackets for all purposes are described in a catalog of the Elite Mfg. Co., Ashland, Ohio.

Bench Saws, adaptable to large or small work, are a convenience in the shop or on the job. A ball-bearing utility saw that cuts at any angle mounted on a table that tilts to 45 degrees is described in a catalog of Ralph Kennedy, 111 North Seventh St., Philadelphia, Pa.

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Here's a Wise Builder!



He realizes the Sales Value of Comfort

MR. W. G. IVERSON, Minneapolis, Minn., contractor and builder, knows from experience that Flax-li-num insulated houses are easier to sell and he does not hesitate to "tell the world" about it. Whether Mr. Iverson builds on contract or for speculation he recommends and uses Flax-li-num—the correct building insulation — because Flax-li-num is a highly effective insulating material and at the same time a very practical building material.

Flax-li-num is made from flax, the toughest and most durable vegetable fibre known and in itself a natural insulator.

Flax-li-num is neither limp nor board-like in form. It is semi-rigid and is not easily broken, torn or punctured. When installed it will not buckle, warp, pulverize or crack.

Flax-li-num is made in flat sheets and flanged to fit between the studding. It comes in sheets of a standard width and is easily installed at little cost.

Flax-li-num is made in three correct thicknesses — full inch for insulating ceilings and roofs where the greatest heat loss occurs; one-half for use in side walls, and one-quarter inch, which is used with other thicknesses, for sound control.

If you are a wise builder you will benefit by Mr. Iverson's experience and recommend and use Flax-li-num. It will give the houses you build added value for the buyer, will materially add to your reputation as a builder. The Flax-li-num factory representative in your territory will work with you in this connection. Ask us for his name.

FLAX-LI-NUM INSULATING CO., *St. Paul, Minnesota*

Flax-li-num

The Correct Building Insulation and Sound Control Material

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Some More Useful Catologs

Refrigerators are an important adjunct in the modern home and the housewife demands that they should be economical in cost and also in maintenance. A description of a built-in refrigerator of attractive design is presented in literature of the McCray Refrigerator Co., 2564 Lake Street, Kendallville, Ind.



CONTRACTING EQUIPMENT

Reliable Information on Time and Labor Saving Devices

Saws and Shop Devices of tested quality and a high degree of perfection are listed in an illustrated volume issued by the E. C. Atkins Co., Indianapolis, Ind.

Surveying Instruments and accessories are constantly required by the builder and should be of a standard of perfect exactness. Information regarding convertible levels, dumpy levels for vertical sighting, and farm and carpenters' levels may be had from the New York Blue Print Co., 102 Read St., New York.

Slate finds many uses in the building industry. Some interesting circulars regarding its many uses may be obtained from the Structural Slate Co., 120 Robinson Ave., Pen Argyl, Pa.

Mineral Wool when used for lining the walls of a house, renders it more comfortable both in summer or winter. A booklet describing the use of this insulating material can be secured from the United States Mineral Wool Co., 280 Madison Ave., New York.

Weatherstrips of approved type and quality are economical and make for better all-round home satisfaction. These appliances, together with flyscreens and window shades are products described in literature of the Victor Parting Bead Co., Reading, Pa.

Hatchets, Axes and Adzes should be of the best stock in order to withstand heavy usage and give good service. A complete list of such tools is accompanied with specifications in circulars of the L. & L. J. White Co., 100 Columbia St., Buffalo, N. Y.

Wood Mosaic Floors provide an artistic finish for residence interiors and add a touch of sought-for variety. The illustrated catalog of the Wood Mosaic Company, New Albany, Ind., contains valuable information as to how this can be made a talking point in selling homes.

Oak Flooring means beautiful floors, for it is at once artistic in effect and has the added advantage of being moderate in cost. Superior oak flooring from the Appalachian region; the proper method of laying, and the picturing of handsome patterns are contained in a catalog of the W. M. Ritter Co., Columbus, Ohio.

Brick laid up in the Ideal wall is taken up in the publication No. 11, "Hollow Walls of Brick and How to Build Them," published by the Common Brick Manufacturers' Association of America, Cleveland, Ohio. It includes full data on new types as well as complete information on types now generally familiar.

Stair Treads do much to prevent accidents, and all stairs should be so equipped. An anti-slip tread equipped with safety grooves is desribed by the Safety Stair Tread Co., Wooster, Ohio, in a booklet accompanied by blue prints of installation.

Carpenters' Tools see the hardest usage and therefore in materials and workmanship they should be of the best. Tools for the master workman, including chisels, bits, gauges, augers, screwdrivers and draw knives are listed in a catalog of the James Swan Co., Seymour, Conn.

Window Glass is a constant source of satisfaction and comfort to the house owner. Specifications for window glass that gives the maximum of transparency and firmness can be obtained from the American Window Glass Co., Pittsburgh, Pa.



CONCRETE

Form Work-Reinforcing Methods
Monolithic and Block Construction

Concrete is one subject upon which every builder should have concise, definite information. "The Universal Dealer," the house organ of the Universal Portland Cement Co., 210 S. La Salle St., Chicago, goes a long way towards disseminating necessary information in the building field.

Concrete Curing in a semi-arid climate is the subject of a comprehensive bulletin (No. 15) published by the Structural Materials Research Laboratory, Lewis Institute, Chicago. The report describes tests carried out during the summer of 1924 at Sacramento, Calif., in co-operation with the California Highway Commission. The results will be of value to all those interested in concrete work.

Patents are the subject of the fourth edition of a Trade Mark book just published by Richards & Geier, patent and trade mark attorneys, 277 Broadway, New York City.

Heating Plants of all description, from the pipeless to three run floor or wall registers are illustrated in a booklet of the Bovee Furnace Works, 50 West 8th St., Waterloo, Iowa.

Casement Windows enjoy a deserved popularity, adding materially, as they do, to the attractiveness of the home. The booklet issued by Henry Hope & Sons, Ltd., 103 Park Ave., describes numerous types and styles of metal casement windows and will prove of interest to builders and home owners alike.

Business Opportunities in Savannah, Ga., are discussed in literature of the Board of Trade of that city. Builders may obtain this together with road information by addressing inquiries to its offices at East Broughton Street. Booklets show how the Florida boom has been reflected in this portion of the South.



PLUMBING

Modern Methods and Equipment

Toilet Partitions of a new type are being introduced in literature of Hart & Hutchinson, New Britain, Conn. It describes the addition of the "Veneer-Steel" partition to the H. & H. line. Builders will find it valuable for their files.

Plumbing and Heating are taken up in the encyclopedia of Hardin-Lavin Co., 105 W. Pershing Rd., Chicago, Ill. The volume is known as the "Handy-Man" book and offers details on the different lines of plumbing and heating equipment.

Beds of the built-in, out-of-the-way type are discussed in new literature of the White Door Bed Co., 130 N. Wells St., Chicago. One, "A Book for Architects and Prospective Builders," offers complete description and illustration of various types for small house and apartment use. Other literature presents plans showing installation possibilities.

Roofing may be obtained today in so many different types that every builder should have complete data on hand. "6 Steps for Bigger Roofing Business" is the title of a dealer-help just published by the Ruberoid Co., 95 Madison Avenue, New York. It offers builders and dealers a catalog on "Reasons for Handling Ruberoid."

Stairways that disappear into the floor above provide additional usable space in the small home. Literature of Thomas N. Badger, Box 126, Berkeley, Calif., describes one type of disappearing stairway together with other convenience specialties.



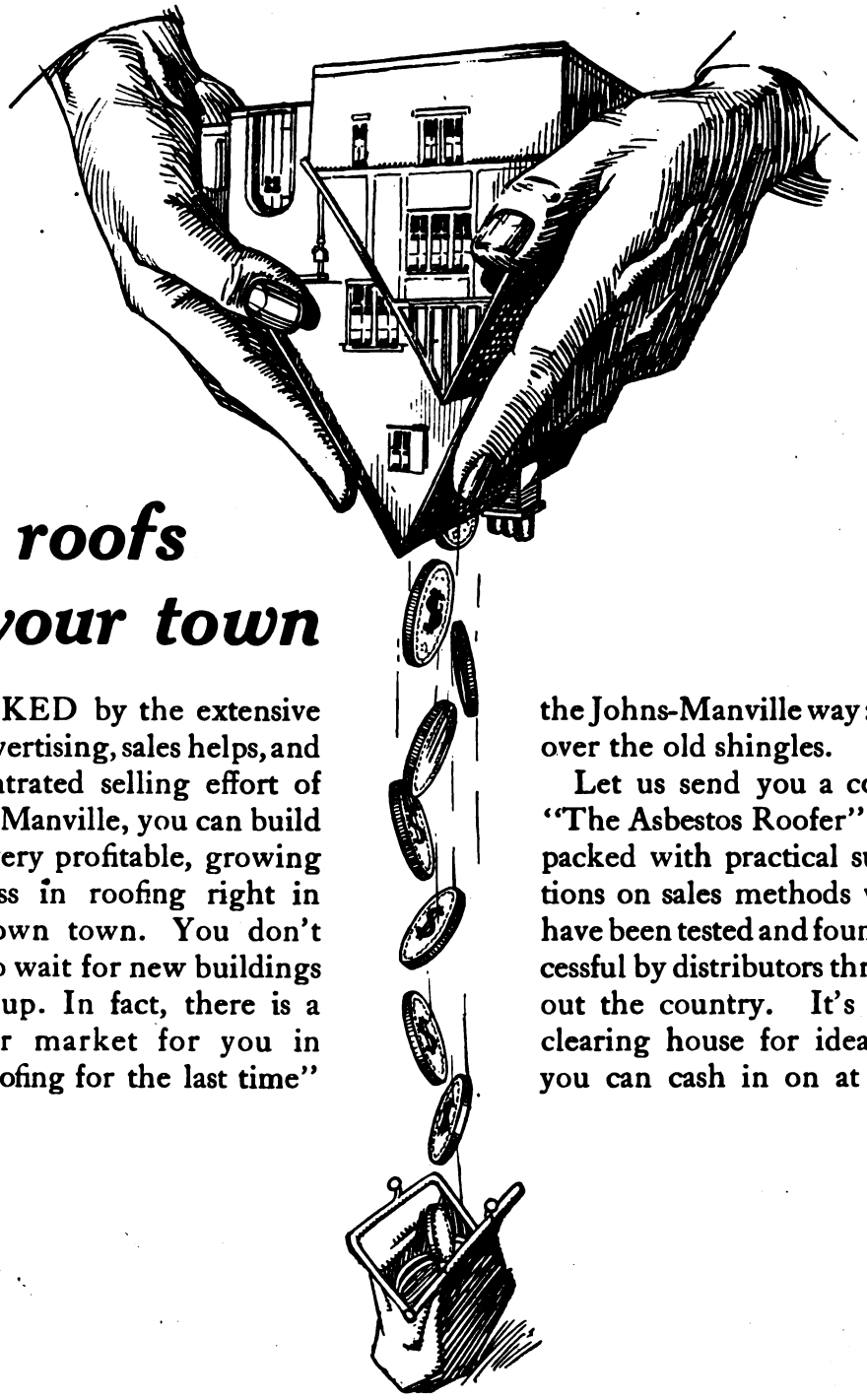
CARPENTRY

Good Practice in Frame Construction and Finish

Oak Flooring literature includes many recent publications, "The Story of Oak Floors," "How and Where to Use Oak Floors," "For Hotels Lay Oak Floors," "For School Buildings Lay Oak Floors." Each of these booklets is illustrated in color and the work treated in an interesting manner. Another bulletin of the Oak Flooring Bureau, 828 Hearst Building, Chicago, is entitled "Oak Flooring Memogram," a dealer-help.

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There is money



in the roofs of your town

BACKED by the extensive advertising, sales helps, and concentrated selling effort of Johns-Manville, you can build up a very profitable, growing business in roofing right in your own town. You don't have to wait for new buildings to go up. In fact, there is a greater market for you in "Reroofing for the last time" the Johns-Manville way: right over the old shingles.

Let us send you a copy of "The Asbestos Roofer". It is packed with practical suggestions on sales methods which have been tested and found successful by distributors throughout the country. It's a real clearing house for ideas that you can cash in on at once.

JOHNS-MANVILLE Inc., 292 Madison Ave. at 41st St., N. Y. C.
Branches in 64 Large Cities
For Canada: CANADIAN JOHNS-MANVILLE CO., Ltd., Toronto

Through Asbestos and its allied products
INSULATION
BRAKE LININGS
ROOFINGS
PACKINGS
CEMENTS
FIRE PREVENTION PRODUCTS

JOHNS-MANVILLE
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Review of Building Situation

OCTOBER closely followed the previous record of September and established its own record for the biggest October building report. The volume, $519,528,200, was 27 per cent greater than October, 1924. The decline from September was only 5%. This total does not include the report from the Gulf District. 51% was attributable to residential and 13% to Public Works. The first 10 months total of this year has already exceeded the entire volume of 1924. New work totals $839,049,300, 27% in excess of September and 52% over October, 1924.

New England contracts awarded showed an increase of 24% over last year and a decline of 20% from September. Total: $38,776,300. Residential commanded almost half. The report for ten months construction has exceeded the entire volume for last year by 15%. New work is over 40% in excess of the previous month and also October, 1924.

New York district total, $140,918,600, is 8% greater than September and 31% greater than October last. Residential took 66%. The first 10 months operations are 10% greater than corresponding period of 1924. New work was 59% over September and 135% over last October.

$51,447,300 is the total reported by Mid-Atlantic States, showing a 6% increase over September, and decrease from October last. A 15% increase over the first 10 months operations of last year is shown in report for same period of 1925.

Building contracts in Pittsburgh district amount to $78,362,100, representing an 18% increase for the corresponding month of 1924. For the first 10 months the total exceeds by 60% a corresponding total of last year and in addition is 28% over last year's entire volume.

From the Middle West comes a report of $126,449,300. This is less than September but 35% over October, 1924. Residential took 50%. The first 10 months exceeded the entire 1924 report by 20%.

A decrease from September and from October 1924, is reported from the Northwest. Total: $6,932,900. The 10 months total, however, exceeds last year's for same period.

The total for the first 10 months for the South Atlantic States is $653,860,000. This in an increase of 25% over 1924's corresponding period. October contracts showed a decrease from September but an increase over October, 1924.

Texas reports $10,725,500, a decrease from last year and from September. New work: $12,042,900.

Record of October, 1925, Building Contracts Awarded

Classification of Buildings	SECTION OF COUNTRY: New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North West District	South Atlantic District	Gulf District	Totals
Commercial Buildings.	$4,807,900	$12,360,500	$5,586,700	$5,444,200	$15,099,200	$614,100	$11,999,500	$2,752,500	$58,664,600
Educational Buildings.	4,407,800	6,806,100	2,974,000	1,827,000	9,084,200	113,500	2,979,400	370,000	28,562,000
Hospitals, etc.....	1,153,000	1,498,400	875,800	320,000	1,468,500	554,000	662,600	274,500	6,806,800
Industrial Buildings...	6,034,600	5,165,400	4,787,000	31,889,500	11,331,800	393,500	3,714,300	278,200	63,594,300
Military and Naval...	.....	410,000	43,000	10,000	125,000	10,000	25,000	.....	623,000
Public Buildings.....	25,300	782,000	46,600	96,000	357,300	82,500	844,100	550,000	2,783,800
Public Works.....	2,785,200	7,919,900	5,650,900	14,484,900	17,012,200	927,200	17,226,200	607,400	66,613,900
Religious & Memorial.	809,500	1,233,000	471,800	3,123,500	4,937,500	200,000	2,314,400	107,000	13,196,700
Residential Buildings..	17,798,100	92,600,900	30,400,500	20,628,000	63,067,100	3,988,100	34,242,800	5,506,900	268,232,400
Social & Recreational.	954,900	12,142,400	611,000	539,000	3,966,500	50,000	2,633,400	279,000	21,176,200
Total	$38,776,300	$140,918,600	$51,447,300	$78,362,100	$126,449,300	$6,932,900	$76,641,700	$10,725,500	$530,253,700

Building Projects Contemplated, October, 1925

Classification of Buildings	SECTION OF COUNTRY: New England District	New York District	Mid-Atlantic District	Pittsburgh District	Middle-West District	North West District	South Atlantic District	Gulf District	Totals
Commercial Buildings.	$7,677,900	$41,895,200	$7,958,400	$7,287,700	$23,734,800	$1,410,600	$15,483,600	$2,873,400	$108,321,600
Educational Buildings	3,074,000	13,698,200	4,529,600	4,689,900	6,062,000	1,410,500	4,744,000	363,000	38,571,200
Hospitals, etc.....	805,000	5,854,500	500,500	1,119,000	10,217,000	119,000	1,573,500	62,000	20,250,500
Industrial Buildings...	7,905,600	60,141,900	6,391,000	8,271,400	18,854,400	699,100	4,634,600	185,200	107,083,200
Military and Naval...	.....	308,000	120,000	.....	.....	6,000	45,000	.....	479,000
Public Buildings.....	686,000	919,000	549,000	374,000	2,404,000	33,000	1,928,600	61,000	6,954,600
Public Works.....	2,627,000	22,449,000	8,937,900	15,256,800	49,619,800	3,406,600	22,164,400	861,000	125,322,500
Religious & Memorial.	722,500	4,942,000	2,546,800	2,673,000	2,922,500	285,000	2,085,500	481,000	16,658,300
Residential Buildings..	22,544,300	113,772,400	51,854,600	28,017,000	73,750,200	5,311,600	83,499,200	6,489,300	385,238,600
Social & Recreational.	10,212,500	7,954,000	13,134,000	1,551,000	5,988,500	444,000	2,261,700	667,000	42,212,700
Total	$56,254,800	$271,934,200	$96,521,800	$69,239,800	$193,553,200	$13,125,400	$138,420,100	$12,042,900	$851,092,200

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Fenestra Casement Windows



They'll Help You Sell The Houses YOU Build

Investment builders are relying more and more on nationally advertised products such as Fenestra Windows to help sell the houses they build.

Fenestra advertising is teaching home buyers everywhere to recognize the merits of Fenestra Steel Windows—the better light and ventilation they afford; the cozy, attractive effects they produce; their freedom from sticking and warping; their easy cleaning advantages; their security from bad weather; and finally, their *surprisingly low cost.* Ask your lumber or building supply dealer for prices, or mail the coupon for literature or a demonstration.

DETROIT STEEL PRODUCTS COMPANY, C-2252 E. Grand Boulevard, Detroit, Mich.
***Factories* in Detroit, Mich., Oakland, Calif., and Toronto, Ont., Canada**
For *Canada*: Canadian Metal Window & Steel Products, Ltd., 160 River Street, Toronto, Ont.

Fenestra

for homes, large and small
shops and small factories
garages and service stations
stores and other buildings

DETROIT STEEL PRODUCTS COMPANY
C-2252 East Grand Boulevard, Detroit, Mich.
Please send us information on:

- ☐ Fenestra Casement Windows
- ☐ Fenestra Basement Windows
- ☐ Fenestra Garage Windows
- ☐ I would like to see a sample.

Address _____
Name _____

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Trend of Material Prices

THE following are wholesale prices of basic building materials in the three markets which set prices for the rest of the country.

These prices are presented to show the trend of the wholesale market, which forecasts prices in the retail market. They are not prices which the average contractor can buy at, but are quoted to show him the movement of materials so that he can buy to better advantage. All prices are for carload lots, F. O. B. market quoted, unless otherwise noted.

Followed in conjunction with the Review of Building Situation these prices will prove invaluable.

NEW YORK PRICES

	Oct. 25	Nov. 25
LONG LEAF YELLOW PINE—		
B. & Better Edge Grain Flooring, 25/32x2¼" Face	$89.00	$88.00
Dimensions, S1S1E, No. 1 Common, 2x4 in., 10..	43.75	43.75
Timbers, Merchantable, 05, 12x12", 10' to 20'.....	53.00	54.00
B. and Better Ceiling, ½x3¼.....	42.00	42.00
B. and Better Partitions, ⅝x3¼ in.....	56.00	56.00
B. and Better Finish, 1x4".....	68.50	68.50
No. 1 Common Boards, 1x8.....	50.00	50.00
NORTH CAROLINA PINE—		
No. 2 and Better Flooring, 13/16x2½".....	$65.00	$63.00
Roofers, 13/16x5½ in.....	34.00	34.00
DOUGLAS FIR—		
No. 2 Clear and Better V. G. Flooring, 1x3 in....	$68.00	$68.00
No. 1 Clear V. G. Flooring, 1x4 in.....	70.00	70.00
No. 2 Clear and Better Ceiling, ⅝x4 in.....	42.50	42.50
No. 2 Clear and Better Novelty Siding, 1x6 in...	54.00	54.00
No. 2 Clear and Better V. G. Stepping.....	92.00	92.00
WESTERN RED CEDAR—		
B. C. Perfection Shingle, per M.....	$7.23	$7.21
Washington Perfection Shingles, per M.....	6.85	6.80
Clear Bevel Siding, ½x6 in.....	43.75	43.75
CANADIAN SPRUCE—		
No. 1 Lath, 1½ in.....	$8.00	$7.75
Dimensions 2x4, 10' to 16'.....	36.50	36.50
HARDWOOD FLOORING—		
Clear Quartered White Oak, 13/16x2¼ in.....	$152.50	$152.50
Clear Plain White Oak, 13/16x2¼ in.....	102.50	102.50
Clear Plain Red Oak, 13/16x2¼ in.....	94.00	94.00
Clear Maple 13/16x2¼ in.....	102.50	102.50
(All lumber prices furnished by The Lumber Manufacturer & Dealer)		
COMMON BRICK—		
Per M. f. o. b. job.....	$18.50	$18.50
PORTLAND CEMENT—		
Bbls. in car lots to contractors, delivered.....	$2.50	$2.50
STRUCTURAL STEEL—		
Per 100 lb. at warehouse.....	$3.24	$3.24
CRUSHED STONE (cu. yd.)—		
¾ in.....	$3.15	$3.15
1½ in.....	3.00	3.00
WALL BOARD—		
Per 1,000 sq. ft. in lots under 1,000 sq. ft.....	$50.00	$50.00
Per 1,000 sq. ft. in lots 1,000 to 2,500 sq. ft.....	45.00	45.00
METAL LATH—		
2.2 lb.—26 gauge, price per 100 sq. yd., delivered.	$0.19	$0.19
2.8 lb.—24 gauge, light, price per 100 sq. yd., deliv.	0.22	0.22
3.4 lb.—24 gauge, heavy, price per sq. yd., deliv..	0.25	0.25
(Add 5 cents per sq. yd. for galvanized.)		
LIME (Hydrate)—		
Finishing, per 50 lb. bag.....	$0.65	$0.65
Masons, per 50 lb. bag.....	0.45	0.45
SAND AND GRAVEL—		
Sand (per cubic yard).....	$2.00	2.25
¾ in. Gravel (per cubic yard).....	3.00	3.00
1½ in. Gravel (per cubic yard).....	3.00	3.00
FACE BRICK—		
Tapestry (delivered)	$47.00	$47.00
Harveale (delivered)	43.00	43.00
Caledonian (delivered)	45.00	45.00
Smooth Grey (delivered)	46.00	46.00
Fiske Lock, f. o. b. factory.....	39.50	39.50
SHINGLES—		
Asphalt, Single (per square).....	$6.50	$6.50
Asphalt strip (per square).....	7.00	7.00
STAINED WOOD SHINGLES—		
10 in. Extra Clear (per square, delivered).....	$10.75	$10.75
18 in. Eureka (per square, delivered).....	11.00	11.00
18 in. Perfection (per square, delivered).....	12.00	12.00
24 in. Royal (per square, delivered).....	12.00	12.00
VITRIFIED SEWER PIPE—		
4 in. (cents per foot).....	$0.13	$0.13
6 in. (cents per foot).....	0.19	0.19
SLATE ROOFING—		
Slatington, 8x16 in. per sq. at quarry.....	$8.40	$8.40
CORNER BEADS (Galvanized)—		
Per foot.....	$0.04	$0.04
WALL TIES (Galvanized)—		
Per thousand	$3.75	$3.75
FLUE LINING—		
8½ x 8½ in., per foot.....	$0.34	$0.34
8½ x 13 in., per foot.....	0.45	0.45
HOLLOW TILE—		
8 x 12 x 12 in., heavy. Each, delivered.....	$0.25	$0.25
HAIR—		
Per bushel	$0.60	$0.60
PLASTER BOARD—		
32 x 36 x ⅜ in. Each.....	$0.26	$0.26
MAGNESITE STUCCO—		
Per ton	$45.00	$45.00
TILE—		
1 in. Square or Hexagon, White, per sq. ft.....	$0.27	$0.27
3 x 6 in., White Wall.....	0.50	0.50
8 x 8 in., Red Floor.....	0.40	0.40

CHICAGO PRICES

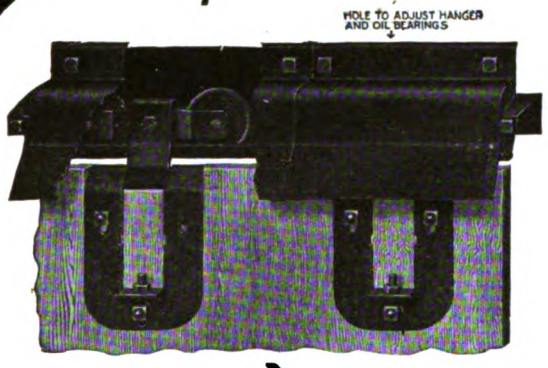
	Oct. 25	Nov. 25
YELLOW PINE—		
Boards, 1 x 8, No. 1 Common.....	$42.00	$42.00
Ceiling, ⅝ x 4 B. and Btr.....	42.00	43.50
Dimensions No. 1, 2 x 4, 12 to 14 ft.....	32.00	32.00
Drop Siding, 1 x 6, B. & Btr.....	51.00	52.00
Finish, 1 x 4, B. and Btr.....	58.00	65.00
Flooring, B. and Btr. E. G., 1x4.....	78.00	78.00
Lath, 4 ft., No. 1.....	7.50	7.50
Timbers, Long Leaf No. 1, 10-20 ft., S4S, 6x12 to 12 x 12	50.00	50.00
HARDWOODS—		
Maple Flooring, 13/16 x 2¼ in. clear.....	$96.00	$96.00
Oak Flooring, ⅝ x 2, Cl. P., White.....	68.00	68.00
Oak Flooring, 13/16 x 2¼, Cl. Pl., White.....	95.00	84.00
REDWOOD—		
Bevel Siding, S1S1E, 8x20, ½x4 clear.....	$34.25	$34.25
Finish, S2S or S4S, 1 x 6 to 8 in., clear.....	82.50	82.50
WESTERN RED CEDAR—		
Bevel Siding, ½ x 4, clear.....	41.00	41.00
Shingles, extra clear, 16 in.....	4.61	4.61
COMMON BRICK—		
Per M. f. o. b. job.....	$12.00	$12.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers	$2.20	$2.10
STRUCTURAL STEEL—		
Per 100 lbs. at warehouse.....	$3.00	$3.00

ST. LOUIS PRICES

	Oct. 25	Nov. 25
YELLOW PINE—		
Boards, No. 1 Common, 1 x 4.....	$40.75	$41.75
Dimensions, No. 1, S1S1E, Short Leaf, 2 x 4 in., 12 x 14 ft.....	31.50	33.00
Finish, S2S, B. & Btr., 1¼ & 1½x5, 10 & 12 ft..	88.50	88.50
Flooring, B. and Btr., E. G., 1 x 3.....	85.00	86.00
Flooring, B. and Btr., F. G., 1 x 3.....	63.00	65.00
Lath, 4 ft., No. 1.....	6.60	6.50
Timbers, No. 1, rough, short leaf, 6 x 12 to 12 x 12 in., 10 to 20 ft.....	44.75	44.75
CALIFORNIA REDWOOD—		
Finish, S2S, Cl., 1 x 6 in.....	$82.50	$82.50
Siding, 4 in. Bevel, 8 to 20 ft.....	34.25	34.25
8 in. Colonial.....	66.75	66.75
8 in. Bungalow.....	47.25	47.25
HARDWOODS—		
Oak Flooring, ⅜x1½ & 2 in. clear, Qtr. White...	$102.00	$102.00
Maple Flooring, 13/16 x 2¼ in., clear.....	100.00	100.00
RED CEDAR—		
Siding, ½ x 6, clear.....	$42.50	$42.50
Shingles, clears, per M.....	4.71	4.71
COMMON BRICK—		
Per M. f. o. b. job.....	$18.00	$18.00
PORTLAND CEMENT—		
Bbls. in car lots to contractors, not including containers	$2.30	$2.20
STRUCTURAL STEEL—		
Per 100 lbs. at warehouse.....	$3.15	$3.15

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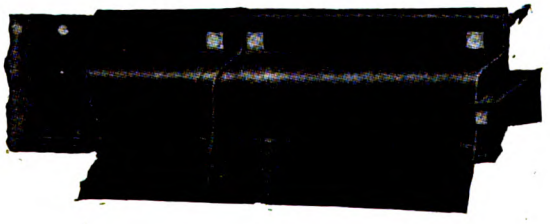
National No. 88 Hanger



LONG service? No. 88 gives it! Scientifically distributed load? Over every inch! Vertical and lateral adjustments? Certainly. Great, heavy doors are handled with almost feather-like ease. Fits close to the building; the door is carried closer to the rail than in any other type; it's storm-proof and bird-proof.

Storm-Proof Rail

With protective cover



IT doesn't require brackets; the sections form practically a one-piece rail and splice covers are unnecessary. Those are just a few reasons why contractors, builders and architects have nominated and elected No. 88 Number One in the Popularity Contest! Ask us to send you Storm-Proof Booklet. A post-card will bring it.

National Manufacturing Company
STERLING ILLINOIS

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Our Readers Tell Us



HARRY BARR of Santa Ana, Calif., is being featured this month for his accomplishments in the building field. His slogan "Barr's Better-Bilt Bungalows" is an emphatic one, there's no doubt.

We have been fortunate in getting a number of his designs so that every reader may have the opportunity to see just what has contributed so largely to Mr. Barr's success. There are unquestionably hundreds of builders whose work parallels Mr. Barr's. We would like to hear from them. Success stories are at their best when the builder himself contributes the material. He knows wherein his successful methods lie and is naturally "full of his subject."

TOWARDS press time last month, when it looked as if nothing short of a miracle would release us from our burden we opened this letter from James A. Isaac of the Great Northwest:

My first installment of BUILDING AGE AND NATIONAL BUILDER *came yesterday P.M. and I had the most enjoyable evening I have had for some time. I hope to spend many such evenings until the next one comes as I always find something new every time I open its pages.*

Truly yours,
JAMES A. ISAACS.
624 Cedar Street, Pendleton, Oregon.

This gave us new life, you may be sure. We took our printers by storm and deciding that after all perhaps an editor's job was really worth while.

* * *

And then before we had begun to lag again W. W. Workman contributed his share to the resuscitating work. He writes from Brookfield, Mo., and we don't know whether that name he signed was a pseudonym or not. If that's his real name, it certainly is a decisive answer to the century-old query "What's in a Name?" Here is what Mr. Workman says about our efforts:

"Your paper is growing better all the time and while I am a great reader of building papers, I look forward to yours more than any of the rest. I really think you are the one and only building paper which stays with the mechanic and contractor. All the others seem to cater to the dealer too much."

To this boost we can only comment, "Well, we've not forgotten that in the building field it's the builder that does the building."

B. G. C. thinks that the All-American Home idea is very fine, indeed. There is only one difficulty, he claims. If it is to be a speculative proposition where is it to be built and who will buy the completed job? The answer to that is simple. Follow the example of the American Home that is now on its way to France. With an eye on problem of selling our All-American House, put it up first in Prospect (Va.) Then if this town does not run true to its name, dismantle the home and ship it to Byers or Buyerstown (Pa.). This looks like a good territory but the next move might easily be across the state line to Ona (W. Va.). As a last resort, if all prospects are cold, give up the idea of selling the home, ship it to Tennent (N. J.) and rent it on a metropolitan scale.

MR. JACK D. PAUL, builder of Evansville, Ind., tells us that he has received a great many inquiries regarding the story of his work in our September issue. Both the "Evansville Courier" and the "Evansville Press" printed excerpts from our story, "The House That Jack Built" and this of course, brought home to Jack's fellow townsmen the fact that their friend is a builder worthy of nation-wide publicity.

". . . instead of being Jack D. Paul of one hundred and sixty pounds, I feel like about three hundred," he writes We'd hate to feel responsible for all this inflation, as we certainly did not publish Jack's story solely to make him swell-headed. His was a story of a successful builder, whose policies and building practice are of the finest.

He says one builder has written him from Detroit "that it certainly gave him some good points, and asking for plans and specifications for use in the building game . . . A letter from Attorney Robert E. Barlet, Chicago, states that he saw the write-up in BUILDING AGE and he is greatly interested. He is going to launch an active campaign for new houses and summer resort lots early in the spring. He wants me to forward photographs and plans of several of my houses, which I am doing."

All this indicates that Jack bids fair to become the building prophet and Advisor-Extraordinary of the Middle West.

We have not forgotten that Jack was somewhat reluctant at first as far as telling his own story of success was concerned. When the ice was once broken, however, he presented the facts in remarkably good form. We hope there are other successful builders in the country who will take advantage of this opportunity to tell their fellow builders of their achievement in the field. Don't let false modesty restrain you.

Our Exchanges

Spontaneous combustion sometimes has been traceable to a $50,000 insurance policy covering a $10,000 stock of goods. —**Building Economy.**

The home-owner has constructive aim in life. He works harder outside his home; he spends his leisure more profitably, and he and his family live a finer life and enjoy more of the comforts and cultivating influences of our modern civilization.—**Herbert Hoover.**

More and more people are becoming convinced that winter construction is both practical and economical. The growth of this belief is certain to result in steadier employment and more efficient construction service.—**Building.**

A careful contractor bidding in competition with a number of fly-by-nighters, rushed into an architect's office to explain that he had forgotten to submit all his bid. "The bid I sent in didn't include brick work, plastering and cement." he exclaimed excitedly. "Oh, that's all right," said the architect, "you weren't low anyway."—**The Constructor.**

HERE is one that has gone the rounds. It is so well seasoned by this time that we cannot miss the re-telling:

An unreliable builder — a so-called "jerry builder"—was taking a prospect through a house. His assistant stood in one room while he went into the next.

"Can you hear me, Henry?" he inquired through the wall.

"Yes," came the answer.

"Can you see me?"

"Not very well," was the reply.

"Them is walls for you," announced the proud builder.

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Every architect knows the lasting qualities of Armco—pure Ingot Iron. No material can equal it for lath. ***This company has the exclusive right to its use in metal lath.***

They know the difference that Herringbone makes

THERE was a time when home owners and home buyers considered plaster cracks as unavoidable evils. But that was before they had been told about metal lath, especially Herringbone Metal Lath.

Now they know that walls needn't crack in years! They know that ugly lath streaks, checks and cracked plaster mean that the house is not built as well as it might be. They know that if Herringbone were back of the plaster, the walls would be *permanently* free from such disfiguration.

You'll find that home builders are more than willing to pay the slight difference in first cost of Herringbone. They realize that the saving in erection cost and the elimination of future repair bills, alone, makes the use of Herringbone a real economy. And because Herringbone is the only lath made of the famous Armco Ingot Iron, it is good for a life-time.

As a guarantee of lasting wall beauty, the use of Herringbone is unsurpassed. The plaster works through and around the mesh, and clinches in behind it with a grip that no amount of shrinkage can loosen. The mesh becomes completely embedded in the plaster slab and reinforces every inch of it perfectly. You can always be proud of a Herringbone wall or stucco exterior.

There are innumerable applications of Herringbone, both exterior and interior. Our hand book—"Herringbone Rigid Metal Lath"—gives these in detail. You should have a copy in your files. We'll gladly send it, without charge, on request.

Other GF Materials:

- ***Self-Sentering***—A combined form, lath and reinforcement for concrete floors and roofs.
- ***Trussit***—A reinforcement for solid partitions.
- ***GF Expanded Metal***—A concrete reinforcement.
- ***GF Steel Tile***—For concrete floors.
- ***GF Steel Lumber***—Used in place of wood joists and studs.
- ***GF Steel Channels***—For fireproof partitions and ceilings.
- ***GF Peds***—Spot grounds for attaching trim to concrete and plaster.
- ***GF Duplex Steel Bridging***—For wood joist floors.
- ***GF Steel Sash.***
- ***GF Steel Basement and Casement windows.***
- ***GF Lintels.***
- ***GF Industrial Steel Doors.***
- ***GF Wire Mesh.***
- ***GF Waterproofings***—For concrete and masonry.

THE GENERAL FIREPROOFING BUILDING PRODUCTS
Youngstown, Ohio

Branches: New York • Chicago • Philadelphia • Boston • Cleveland • Los Angeles • St. Louis • Omaha
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Member National Council for Better Plastering

BETTER PLASTERING — METAL LATH TO REINFORCE AND PRESERVE

GF Herringbone Doublemesh Lath

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WHAT'S NEW



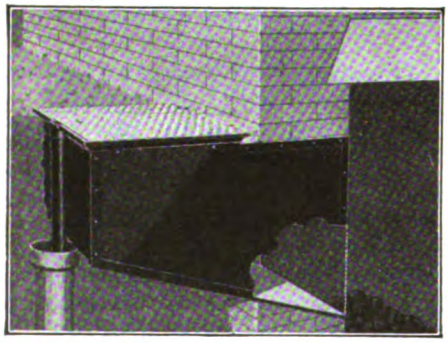
New Materials and Equipment that Keep Your Work Up to Date

A Coal Chute Features Drainage Facilities

A NEW coal chute specially designed to take care of drainage at the grade line has been placed on the market by the Donley Brothers Company, of Cleveland, Ohio.

Considerable difficulty is usually experienced with water entering at the grade line through the coal chute. When door is parallel with the grade in low-set and terraced residences, water is apt to accumulate on the lid and creep down into the chute.

To offset this difficulty the new Donley Grade Line Chute provides a gutter around the frame at edge of door. This carries the water to an outlet with a strainer at the outside of chute, then



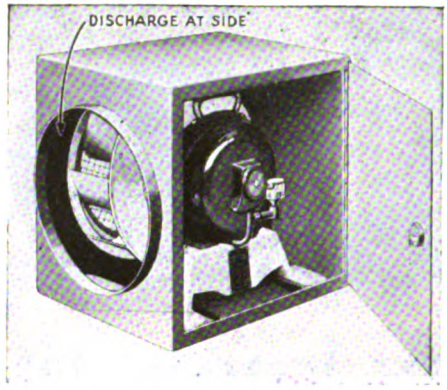
down a pipe to the drainage tile. The pipe connecting the drainage with the tile is only furnished when ordered.

The Grade Line Coal Chute comes in two sizes and is constructed with checkered steel doors, malleable iron frame, and is hinged with a steel body reinforced by a stiff frame.

Noiseless Exhaust Ventilator

THE Silentvent fan and motor are the same as used in the Univent. This new development has been made particularly to meet the demand for an air exhauster, operating silently with small power consumption.

Fan and motor are assembled as one unit on a fixed base. The unit is removable from the cabinet for overhauling and cleaning. Fan is directly connected



to motor and partially telescoped to save space. Strains in fibration are cared for by supporting the fan directly over the motor bearings.

The manufacturers, Herman Nelson Corp., Moline, Ill., indicate that the cost of current for operating the Silentvent is approximately that of two ordinary electric lights. Economy in operation is effected by providing the fan with camparatively few blades and allowing the air passages to conform closely with the natural flow of air. This feature also prevents noise.

Portable Woodworker

PORTABLE woodworkers are desirable on many types of jobs, since it is often more economical to move the machine to the stock than to bring the stock to the machine.

Two additions to their line of woodworkers are announced by the DeWalt Products Co., Leola, Pa., these being Model 3-0 (1½ h.p.) and Model 4-D (4 h.p.). The DeWalt machine is a direct driven overhead woodworker in which all cutting tools are attached on the motor shaft. The latter being free of all encumbrances, such as belts, gears, pulleys, etc., it is possible instantly to tilt the motor to any bevel desired from horizontal to vertical.

By swinging the crane to any desired miter and tilting the motor to the required level, a compound miter or jack rafter cut can instantly be made with both material and table in a horizontal position.

Automatic Garage Locking Device

A GARAGE lock that embodies many features of convenience and safety is found in the "Quicklock", a device of Lurie Products, 3218 Montrose Ave., Chicago.

A turn of the key allows the doors to swing open while in closing, the lock is automatic. When key is turned in lock it operates an eccentric and a studded roller which lift up a steel controlling rod. This releases gripper jaws and doors swing open.

Both doors are controlled by the one lock and key cannot be removed until gripper jaws are in place, making it impossible to leave doors unlocked.

A flexible floor plate allows play of about one inch, a valuable feature in winter and spring when ice and mud are liable to interfere.

The manufacturers are presenting their product on the basis of a number of features. Simplicity is foremost. Then automatic closing and elimination of sagging and misalignment of doors. Easy installation is offered as a final advantage. New literature of the company lists in greater detail the various features embodied in "Quicklock." It shows methods of installation and operation.



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Veneer-Steel

A new, flush type, Steel Partition combining in a unique manner all these desirable qualities:

Non-Vibrating (Noiseless)	Through the use of a fibre core overlaid with Steel Sheets.
Superior Rust Resistance:	Through a complete absence of horizontal crevices—seams, ledges and laps to collect and hold water, and because all tubular members are enameled inside as well as out.
Complete Sanitation:	Through the flush type design.

This is a brief mention only of some of the outstanding features of a pronounced advancement in steel partition construction.

Send for special bulletin fully describing the many other advantages of Veneer-steel.



The Hart & Hutchinson Co. New Britain Conn.

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What's New in Materials and Equipment

Adjustable Shore

DESIGNED with the aim of reducing the cost of shoring, a new adjustable shore made by the Symons Clamp & Mfg. Co., Chicago, embodies a number of unusual features. It has a locking device that does not depend on a clamping or gripping action, and one whose operation is independent of the load on the shore. Its positive locking device cannot settle as cams engage, for there are no cams on the Symons shore.



One of the features of the Symons shore is that it can be adjusted in an upward direction under full load. No jack is required in making either first or secondary adjustments.

This feature is very desirable as all contractors know who have occasion to do remodeling work. It enables workmen to put the shore in place, adjust it roughly and then bring the work into position under more careful adjustments.

The shore has an adjustment of 5′ at 1″ centers. It has a 2½″ secondary or final screw adjustment. The shore, state the makers, will carry a safe load of 10,000 lbs. and has been tested to 18,000 lbs. The supporting members are high-carbon steel and malleable iron. The shore complete, without 4x4's, weighs 34 lbs. This makes it easy to handle. The shore can be set up readily by one man.

Portable Electric Saw

THE new Silver Portable Electric Sawmill is a complete unit operating from the ordinary light socket. It has been particularly designed by its manufacturers, The Silver Manufacturing Company, Department B. A., Salem, Ohio, for contractors, cabinet-makers and others requiring a small compact unit.

The patented gear arrangement actuates a solid 40 lb. flywheel. For mitering a graduated machine-steel mitre device enables the operator to cut mitres up to 90 degrees in 2x4″ pieces.

Finished or unfinished lumber up to two inches thick can be cut on the Silver



apparatus with the saw blade always cutting straight up and down to insure a smooth cut and perfect fit.

The swing arm on which saw is mounted has a swing of nine inches. The lumber may be slid along the table using a sliding gauge, enabling the operator to saw lumber of almost any width.

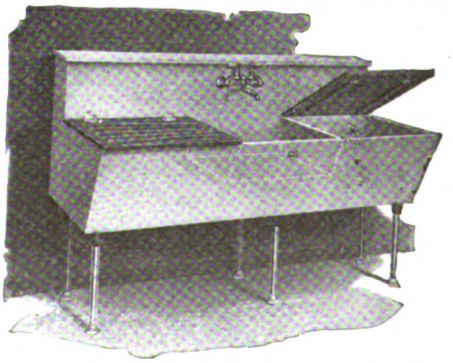
For ripping, swing arm is locked rigidly in an upright position, using the steel pin attachment. As the illustration shows, the Silver machine is rigidly built and may be readily moved about from place to place.

Stone Laundry Unit

THE standard Alberene stone list includes 12 styles of laundry trays (one-, two-, and three-tray units), 18 styles in sinks (with single, double, or no drainboards), and 15 styles in combination tray and sink fixtures. Included within this range are a number of sizes in each style with optional structural details giving a still greater varietyy.

The unit illustrated is a combination fixture consisting of two trays and sink with high back, shelf and return-ends. Its manufacturers are the Alberene Stone Co., 153 West 23rd Street, New York.

The material is natural quarried stone,



non-absorbent, chemically resistant and practically non-staining. The method of construction leaves no cracks or crevices for the lodgement of dirt.

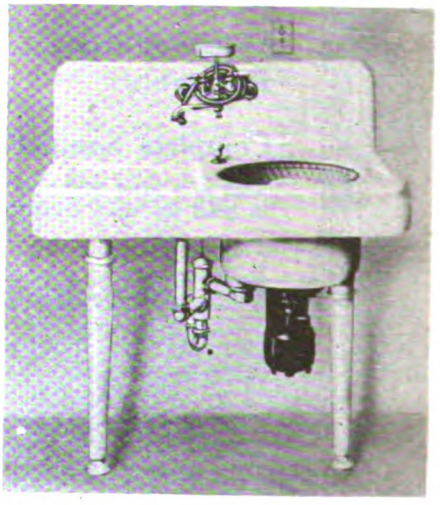
Its surface is smooth and even and easily cleaned. It will not chip, flake, scale or pit, leaving irregularities to make cleaning difficult.

Each fixture is equipped for use with standard type of faucets and fittings.

A Practical Dishwasher

A NEW dishwashing device manufactured by the Chicago Hardware Foundry Company is designed for household operation in a kitchen sink and eliminates hand washing and drying. The unit is sold in the form of a combination sink and washer, or as a washer only. It is electrically operated and models are made for any standard voltage, frequency or phases, either direct or alternating current.

To operate, dirty dishes are placed in the well, a button is depressed and the washing takes place. The dishes are then flushed with hot water with a spray provided for the purpose and automatically dried by heated air.



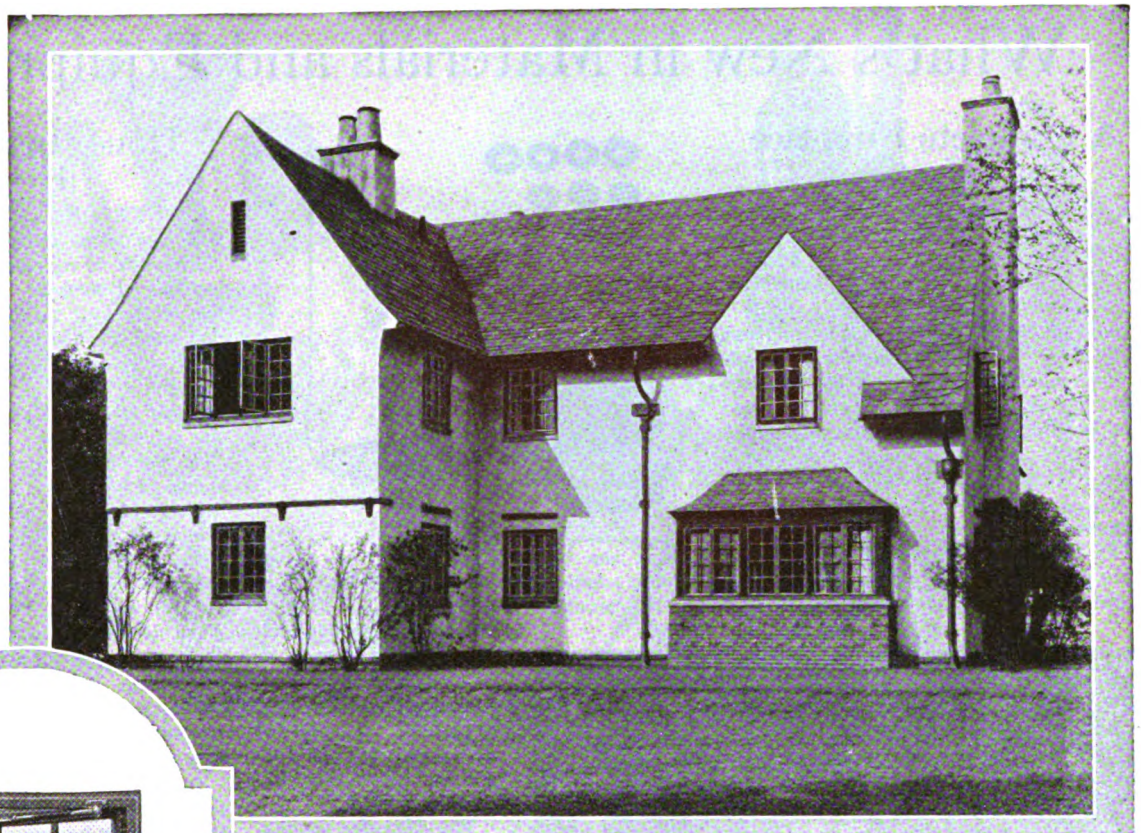
All exposed parts are either porcelain, copper or nickeled steel. The motor is of General Electric manufacture and is rated ¼ horsepower. The basket which holds the dishes may be lifted out and an extra sink thus provided.

Combined Hose and Sprinkler

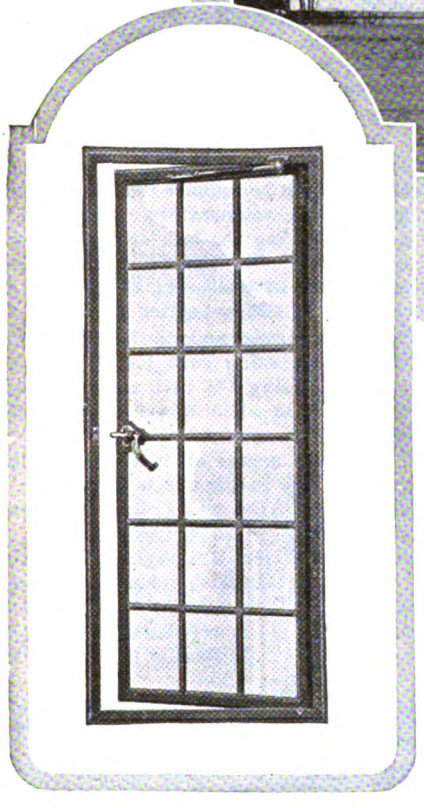
A COMBINATION hose nozzle and water sprinkler is found in the "Water-Gun," the latest development of the Penberthy Injector Co., Dept. N. B., Detroit, Mich.

Its feature lies in convenience as a nozzle and adaptability for use in the usual run of sprinkler work. It is not necessary to remove the nozzle before using it as a sprinkler. A spike at the rear end may be stuck into the ground at any angle desired. The adjustment from a straight stream to a very fine spray and to a full shut-off may be conveniently and quickly made.

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CRITTALL
Standard Steel Casements



Crittall Standard Steel Casements are made of Crittalloy—the Copper-Bearing Steel

For Homes of Moderate Size and Cost

Casement windows are the extra touch of beauty and value that often result in quick sales of completed homes.

That builders recognize this fact is evidenced by the increased demand for Crittall Steel Casements, now available in standard sizes for homes built to sell at moderate prices.

Crittall Standard Steel Casements should not be confused with less efficient types. In quality and workmanship they rank with the higher priced custom-made Crittall installations.

Made to open either in or out, they are guaranteed weather tight. No weather stripping is required. They operate easily—no warping or sticking. Glazing may be either clear or leaded glass.

Literature giving types and sizes may be had upon request.

CRITTALL CASEMENT WINDOW COMPANY, *Manufacturers*
10957 Hearn Avenue, Detroit, Michigan

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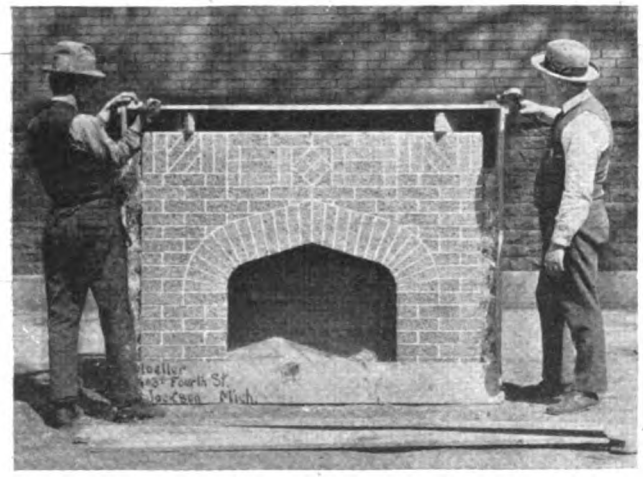
What's New in Materials and Equipment

A Complete Fireplace Unit

FIREPLACES that may be sent in crates, ready for installation, are the products featured by the Pioneer Fireplace & Supply Company, 5325 West Lake Street, Chicago, Ill.

Pioneer Fireplaces are cast in three solid units. The composition is made with a cement cinder concrete base. A Web system of reinforcement is used with one-inch channel iron and expanded metal lath cast in cement. An ornamental brick facing is applied, composed of washed and screened granite, flagstone, flint, etc.

The feature of this fireplace unit lies in its economy in time and material. The manufacturers emphasize the fact that



the laid-down cost will be two-thirds less than the ordinary installation on the job. The complete units are light and crating and shipping inexpensive.

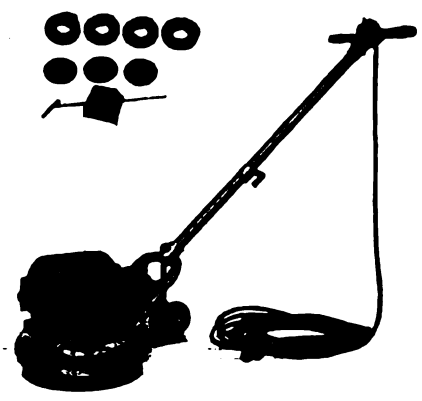
Units may be obtained in any one of a number of designs and sizes. In every case, the texture of the brick is uniform as is the width and consequently the mortar joint.

In order that the unit may harmonize with its surroundings, various color combinations are produced.

Simple Electric Floor Machine

A FLOOR machine enabling a novice to get same results as an experienced floor refinisher is being offered by the Fay Company, 514-516 West 57th Street, New York City.

Attachments include a brush with wire bristles and steel wool, used for taking off old finish. After this a sandpaper disk is attached to the machine for scraping. For scrubbing floors another device may be used that does the work quickly and simply. Another device enables the operator to wax and polish wood, composition or linoleum floors.



The machine is equipped with 35 feet of cable and a connecting plug to attach to an electric socket or convenience outlet. The apparatus is started and stopped by a toggle switch on the top of the handle.

The features emphasized are flexibility, durability and size of operation. As the illustration shows, the one machine may be fitted with any one of the attachments for the various uses described. This opens an unlimited field to the enterprising general contractor.

Power Take-off Unit for Ford Trucks

RECENT developments in special equipment by the Warford Corp., New York City, include a Power Take-off Unit for Ford trucks. This new unit is bolted to the transmission case and is operated by the large countershaft gear, which assembly allows power take-off at the Ford speeds. An exclusive feature is the fact that the transmission may be engaged and the truck driven with the power take-off in operation. The device is furnished with the sprocket shaft extending either forward or back of the unit. Gilliam bearings are used.



House Insulation and Heating

A DEVELOPMENT of very immediate and vital interest to the heating contractor is represented in the increasing use of heavier and better insulation for walls and roof. Losses from these mediums are important features in determining the amount of radiation; hence the relation between two items, heating and insulation, is a very close one indeed.

A few years ago, even a well built house had made little provision for reducing heat transmission save through the most primitive means. The trend today enables heating contractors to base their estimates on heat loss factors materially different from those heretofore generally accepted.

Through the efforts of the Armstrong Cork and Insulation Company, Pittsburgh, new figures are available on heat transmission. Following are representative calculations:

In the case of the solid brick wall 8 inches thick, lathed and plastered, the transmission per square foot is .21 B.t.u.'s per degree temperature difference per hour. Leaving the lath out of the calculations and using an 1½ inch cork-board and plastered transmits, the loss is only .10 B.t.u.'s. Figuring on a base of 7/16 inch clapboards and ¾ inch sheathing, the saving, using cork board, is figured at 52%. Using 1¼ inch corlsboard plastered in the attic a saving of 63% is effected.

This last means of insulation is illustrated. The corkboard is applied to the under side of the roof and the photograph shows this work being done in the residence of Mr. G. Jungling, Cincinnati.

In connection with its work in the insulating field, the company is emphasizing two facts: (1) more efficient operation of heating plant, (2) smaller plant permitted.

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The greatest tack on any map

THE great moment anticipated for years had arrived. The oncoming host from the East had conquered the prairie wastes to meet another valiant horde from the West, bringing with them the very scalps of the Rocky Mountains. And so, the Union Pacific met the Central Pacific at Promontory Point, Utah, in 1869 and the echo of each blow that sank the last golden spike was relayed electrically to every town that boasted a telegraph line. To the clang of bell and boom of cannon were added the glad shouts of the people. It was at once the knell of solitude and the nuptial of East to West. The continent was banded.

During these stirring times, back in the East a little brass shop had been started that was destined to grow up with the country and in time to contribute no small amount to its progress. That plant at the time was making hoop skirt accessories. Soon thereafter, the manufacture of brass pipe was begun, long enough ago to have established a reputation for uninterrupted service to many of America's great buildings over periods varying from 20 to 30 years.

This year sees America at the height of a building boom that was certainly made possible by the transportation facilities that have grown from the first transcontinental link. A healthy sign of the times is found in the fact that many of the great buildings in course of construction today are incorporating Plumrite Brass Pipe upon the testimony of its past performances.

Reminiscences of 60 years in the Brass Business, the fifth in a series, available in folio form upon request.

"Bridgeport" BRASS TRADE CO. MARK
Brass Products
WE MAKE
Ledrite Brass Rod
Phono-Electric Contact Wire
Plumrite Brass Pipe
Phono-Hi-Strength Wire
Tubular Plumbing Goods
Condenser Tubes - Sugar Tubes
Brass, Bronze and Copper Sheets
Brass, Bronze and Copper Tubes
Auto, Bicycle and Pressure Pumps
Auto Accessories - Stampings
Engravers' Copper - Specialties
Screw Machine Products
Pressed or Drawn Products
Oil and Grease Guns
Brass Pipe

Bridgeport Brass Company
BRIDGEPORT - CONNECTICUT
NEW YORK PHILADELPHIA CLEVELAND CHICAGO DETROIT

Electric Furnace Brass



Member Copper and Brass Research Association

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Selected List of Manufacturers' Literature

For the Service of Builders, Contractors, Architects and Engineers

THE publications listed in these columns are the most important of those issued by leading manufacturers identified with the building industry. They may be had without charge, unless otherwise noted, by applying on your business stationery to BUILDING AGE AND NATIONAL BUILDER, 239 West 39th Street, New York, or the manufacturer direct, in which case kindly mention this publication. Either the titles or the numbers may be used in ordering. This list is an editorial feature maintained for the convenience of our readers. It is not a part of the advertiser's contract and BUILDING AGE AND NATIONAL BUILDER assumes no responsibility for its correctness.

(See also Alphabetical Index, page 210)

AIR TOOLS—See Tools, Air

ALUNDUM FLOORS—See Flooring Composition

ARTISTS' MATERIALS—See Drafting Materials

ABBESTOS PRODUCTS

Asbestos Shingle, Slate & Sheathing Co., Ambler, Pa.
2281. *Ambler Asbestos Shingles.* Catalog. 44 pp. Illus.
2282. *Ambler Asbestos Corrugated Roofing and Siding.* Catalog. 36 pp. Standard Purlin Spacing Tables.
2283. *Ambler Asbestos Building Lumber.* 32 pp. Illus.
2284. *Engineers' Data Sheets.* 44 pp. Illus. Specifications for Ambler roofing and siding.

Johns-Manville, Inc., 292 Madison Ave., New York.
3551. *Johns-Manville Products.* Catalog. 16 pp.

Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City N. J.
4121. *Shingles That Last.* Illus. Deals with metal and asbestos roofing.
4123. *Asbestos Roofing and Colored Asbestos Shingles.* Literature.

ASBESTOS ROOFING—See Roofing Materials

ASH DUMPS—See Dampers, etc.

ASH HOISTS—See Hoists

AXES—See Edge Tools

BAND SAWS—See Woodworking Machinery

BAR BENDERS AND CUTTERS

Kochring Co., 31st and Concordia Sts., Milwaukee, Wisc.
3711. *Kochring Bar Benders and Cutters.* Folder. 4 pp. Illus.
3712. *Kochring Booklet.* Lists complete line of products.

BATCH BOXES—See Mortar Boxes

BATHROOM ACCESSORIES—See Bathroom Fixtures

BATHROOM FIXTURES

Chemical Toilet Corp., 801-21 Free St., Syracuse, N. Y.
5641. *Sani-Equip Septic Tanks and Waterless Toilets.* Booklet. Illus. Descrices a chemical toilet for unsewered districts.

Crane Co., 836 S. Michigan Ave., Chicago.
2845. *Homes of Comfort.* 100 pp. Presents complete line.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.

Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
3631. *Kenney Curtainless Shower.* Catalog A. Illus. Concerns several types of curtainless showers.

Wheeling Sanitary Mfg. Co., Wheeling, W. Va.
5041. *Descriptive Literature.* Treats of the combination bathtub.

BEDS, DOOR—See also Built-In Features

American Bed Co., 18th St. and Park Ave., St. Louis, Mo.
2071. *Out-O-Site.* 20 pp. Treating of portable, disappearing beds.

Concealed Bed Corp., 434 Garland Bldg., Chicago.
2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these concealed beds.
2772. *The Book of Beds.*
2773. *Rooms Without Walls.*

Murphy Door Bed Co., 22 W. Monroe St., Chicago.
4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments. Contains data on steel and wood cabinets, ironing boards, steel kitchens, etc.

BENCH GRINDERS—See Grinding Machinery

BITS—See Tools

BLACKBOARDS—See Slate

BLOCK MACHINERY—See Concrete Machinery

BLOWERS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2343. *Descriptive Literature on Blowers.* Illus.

BLOW TORCHES

Everhot Mfg. Co., Maywood, Ill.
3032. *Everhot Blow Torches.* Circular.

BLUE PRINT—See Drafting Material

New York Blue Print Paper Co., 102 Reade St., New York.
4161. *General Catalog.* Illus. Includes complete line of drafting materials, surveying instruments, rules, etc.

BOILERS—See Heating Equipment; also Water Heating Systems

BOOKS—See also Plans

Audel & Co., Theo., 63 West 23rd St., New York.
2321. *Helping Hand Books for Mechanics, Engineers, Electricians and Builders.* 32 pp. Illus. Describes Audel Hand Books.

Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.
2711. *How to Read Blue Prints.* Booklet. Illus. Includes plans.
2713. *Building Construction.* Booklet. Descriptive Literature.

Keith Corp., 100 N. 7th St., Minneapolis, Minn.
3601. *Keith's Magazine.* Monthly. Subscription offer of $3.25 includes 278-page De Luxe edition, "Beautiful Homes."

Walker Co., Frank R., 536 Lake Shore Drive, Chicago.
4881. *How Practical Forms Increase Contractor's Profits.* Illus Catalog. 64 pp. Describes all their books and forms.

BRACKETS—ROOFING, ETC.

Ajax Building Bracket Co., 1551 Rydal-Mount Rd., Cleveland Heights, O. (formerly Ajax Bracket & Outlet Co.).
2021. *Ajax Folding Metal Sheathing and Roofing Bracket.* Illus.

Elite Mfg. Co., Ashland, O.
3011. *Scaffold Brackets.* Catalog. Deals with application.

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.
3172. *Gabriel Folding Brackets.* Descriptive literature.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4427. *Descriptive literature.* Includes prices.

Steel Scaffolding Co., Evansville, Ind.
4651. *Catalog C.* Illus. 16 pp. Describes *Trouble-Saver Steel Scaffolding*, giving prices.

BRANDING IRON

Everhot Mfg. Co., Maywood, Ill.
3032. *Literature.* Describes their branding iron and blow torch.

BRICK

American Face Brick Assn., 130 N. Wells St., Chicago.
2111. *The Story of Brick.* 5 pp. Illus. History and requirements.
2112. *A Manual of Facebrick Construction.* 116 pp. Illus. Types of facebrick for chimneys, etc. Price, $1.00.
2113. *The Home of Beauty.* 72 pp. Illus. 50 prize designs for small brick houses. Price, 50 cents.
2114. *Architectural Details in Brick Work.* 3 series, totalling 124 prints of brick work details. Price, $1.50 per set.
2115. *English Precedent for Modern Brick Work.* 100 pp. Illus. Plates and drawings of Tudor and Gothic. Price, $2.00.
2117. *Bungalow and Small House Plans.* 4 booklets. 50 pp. Illus. Contains 98 reversible designs. (1) 3-4 rooms; (2) 5 rooms; (3) 6 rooms; (4) 7-8 rooms. 35 cents. $1.00 per set.

Common Brick Manufacturers' Assn., 2121 Guarantee Title Bldg., Cleveland, O.
2761. *The Home You Can Afford.* 64 pp. Illus. Contains 62 designs with floor plans of houses and bungalows. 10 cents.
2762. *Your Next Home.* 64 pp. Illus. Contains 60 designs with floor plans of brick houses and bungalows. Price, 10 cents.
2763. *Farm Homes of Brick.* 24 pp. Illus. Offers 10 selected designs with floor plans of farm houses. Price, 5 cents.
2764. *Brick—How to Build and Estimate.* 72 pp. Illus. Includes brick construction data and estimating tables. 25 cents.
2765. *Skintled Brickwork.* 15 pp. Illus. Shows 7 selected houses by Chicago architects. Price, 15 cents.
2766. *Brick Silos and How to Build Them.* 40 pp. 10 cents.

Fiske & Co., Inc., 115 Federal St., Boston; New York and Watsontown, Pa.
5691. *Fiskiok and other Face Brick.* Apppeals to builders from popularity angle.

Hocking Valley Products Co., Logan, O.
3401. *Face Brick.* Descriptive literature.

Riesner, Benjamin, 260 E 78th St., New York.
5791. *Riesner Ventilating Brick.* Folder. Illus. Describes standard size iron brick for ventilating.

BRIDGING—See also Metals and Metal Specialties

General Fireproofing Co., Youngstown, O.
32213. *GF Metal Building Specialties.* Folder, A. I. A. File No. 16E2. 20 pp. Illus. Includes information on bridging, etc.

BUILDING BLOCKS

Crozier-Straub, Inc., 120 W 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

BUILDING CONSTRUCTION

Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

General Fireproofing Co., Youngstown, O.
3221. *The Fireproofing Handbook.* 72 pp. Illus.

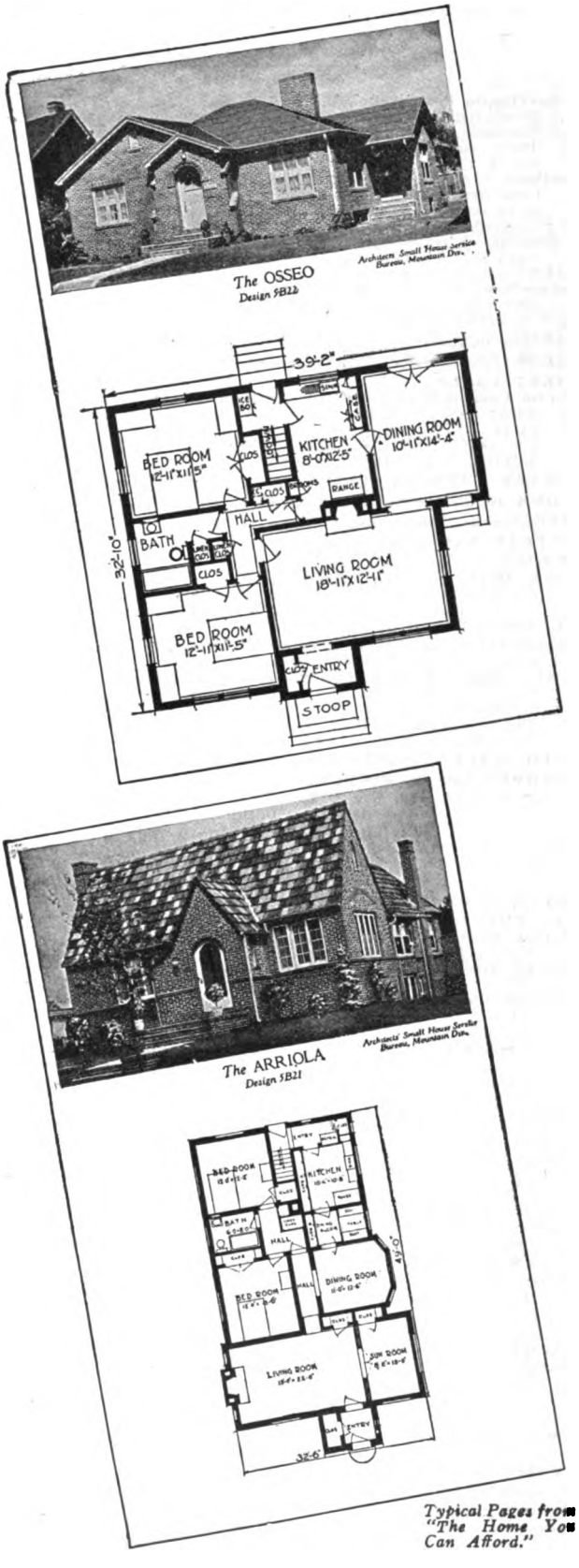
Milwaukee Corrugating Co., Milwaukee, Wis.
4001. *Metallic Construction for Modern Home.* 16 pp. Illus. Shows home interiors *with Milcor Stay Rib.*

Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4201. *Northwestern.* General Catalog. 16 pp. Illus. Covers complete line of Northwestern products.

Smith Co., T. L., Milwaukee, Wisc.
4593. *Smith Excavator and Loader.* Bulletin No. 408. Illus.

Sykes Metal Lath Co., Niles, O.
4731. *Metal Lath for All Purposes.* Illus. Booklet. 20 pp.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with metal lath.

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Typical Pages from "The Home You Can Afford."

Send 75c for These Six Books

Brick homes are easiest to sell. People prefer the permanent beauty of brick—its lack of painting and repairing. They know that a brick home has highest resale value.

Feature 100% brick homes—brick foundation walls, side walls, fireplace and chimney. Send 75c for these six books—ask for the new folder "Hollow Walls of Brick." It's free.

All for Only 75 Cents

Two plan books showing 120 brick homes in picture and plan—"Your Next Home" and "The Home You Can Afford." All practical designs by prominent architects, actually built and lived in. Working drawings for each home shown as low as $10 a set.

"Brick, How to Build and Estimate" is an illustrated handbook on brick construction, giving details of wall construction, tables of materials and other useful information. (25c).

"Brick Silos and How to Build Them" is a bargain at 10c, as is "Farm Homes of Brick" at 5c. "Skintled Brickwork" shows those rough texture walls you've heard so much about. Dimension details for seven effects in this 15c book.

Free Folder on Hollow Walls

Lower cost brick hollow walls, using fewer brick and encouraging faster work, are described and pictured in a new 24-page folder free on request. Keep in step with progress in brick. Just ask for YOUR copy.

We have hundreds of requests for names of good masonry contractors. If you'd like us to refer prospective builders to you send us your name and address and a brief outline of your experience.

The Common Brick Manufacturers Association of America

2133 Guarantee Title Building
Cleveland

Chicago	Chamber of Commerce Bldg.
Denver	1735 Stout St.
Detroit, Mich	400 U. S. Mortgage Trust Bldg.
Hartford, Conn.	226 Pearl St.
Los Angeles	342 Douglas Bldg.
Nashville, Tenn.	804 Harry Nichol Bldg.
New Orleans, La.	904 Carondelet Bldg.
New York City	1710 Grand Central Terminal Bldg.
Philadelphia	City Centre Bldg.
Portland, Ore.	906 Lewis Bldg.
Salt Lake City	301 Atlas Bldg.
San Francisco	811 Sharon Bldg.
Seattle, Wash.	524 Burke Bldg.
Springfield, Mass.	310 Tarbell-Watters Bldg.

The Common Brick Manufacturers' Association of America,
2133 Guarantee Title Building, Cleveland, Ohio.

Enclosed find.....cents. Please send me the books marked below.

"The Home You Can Afford" (10 cts.)
"Your Next Home" (10 cts.)
"Brick—How to Build and Estimate" (25 cts.)
"Farm Homes of Brick" (5 cts.)
"Brick Silos and How to Build Them" (10 cts.)
"Skintled Brickwork" (15 cts.)
FREE! 24-page folder "Hollow Walls of Brick and How to Build Them."

Name.....

Address.....

The 100% BRICK HOME

Highest Resale Value ~ Beauty in Brick is Permanent

No Painting or Repairing ~ Almost no Depreciation

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Selected List of Manufacturers' Literature

(Continued from page 150)

Truscon Steel Co., Youngstown, O.
4791. *Truscon Floorstyle Construction.* Form D-352. 16 pp.
4792. *Truscon Standard Buildings.* Form D-398. 44 pp.
4793. *Truscon Building Products.* Illus. Form D-376. 112 pp.
4794. *Modern School Construction.* Form D-395. 16 pp.

Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder System.* Catalog. Illus. Takes up method of building double monolithic concrete walls without forms.

BUILDING PAPER

American Reenforced Paper Co., Attleboro, Mass.
5851. *Sisalkraft.* Samples sent to show composition—two layers No. 1 Kraft, two layers of Asphaltum, two layers of Java sisal fibres.

Bird & Son, East Walpole, Mass.
2451. *Waterproof.* 6 pp. Illus. Describes *Neponset* building paper

Brown Company, Portland, Me.
2531. *Bermico Sheathing Paper.* Folder. Illus. Contains samples of four different weights of Bermico.

BUILT-IN FEATURES

Alberene Stone Co., 153 W. 23d St., New York.
2031. *Illustrated literature* on soapstone laundry tubs.

Concealed Bed Corp., 434 Garland Bldg., Chicago.
2771. *Landing the Job.* Folder. Gives sales talks on getting jobs to install these Concealed Beds.
2772. *The Book of Beds.*
2773. *Rooms Without Walls.*

Herrick Refrigerator Co., Waterloo, La.
3371. *Refrigerators.* Catalog. 56 pp. Illus.

Hess Warming and Vent. Co., 1207 So Western Ave., Chicago.
3381. *Snow-White Steel Cabinets and Mirrors.* Booklet. 16 pp.

Kilmoth Products Corp., 50B Union Sq., New York.
3671. *No More Folding, Packing or Mussing.* Folder. Illus. Deals with use of built-in cedar closets.
3672. *Kilmoth.* Leaflet. 2 pp. Explains Kilmoth cedar lining.

Lupton's Sons Co., David, Philadelphia, Pa.
3847. *Catalog D.* Describes steel shelving of various types. 1 p. on partitions.

Morton Mfg. Co., 5133-43 West Lake St., Chicago.
5751. *Literature.* Illus. Includes prices, sizes, etc., on Acme steel medicine cabinets.

Murphy Door Bed Co., 22 W. Monroe St., Chicago
4061. *Reference Book.* Manual. Contains blue prints showing various plans of efficiency type apartments. Contains data on steel and wood cabinet ironing boards, steel kitchens, etc.

Ohio State Stove & Mfg. Co., 666 Lake Shore Drive, Chicago.
4231. *The Kab-Range.* Catalog BA-3. Illus. Describes a combination of the *Packer All-Steel Kitchen Cabinet* and *Ranges.*

Wasmuth-Endicott Co., Snowden St., Andrews, Ind.
4941. *12-page Folder.* Features *"Kitchen Maid"* unit systems. Also another mailing piece, showing built-in kitchen apparatus.

White Steel Sanitary Furniture Co., Grand Rapids, Mich.
5341. *Literature.* Describes their "White-Steel" Medicine Cabinets and other "White-Steel" products.

BUSINESS OPPORTUNITIES—

Board of Trade, City of Savannah, Ga., East Broughton St.
5911. *Manufacturing Possibilities and Road Information.* Deals with conditions in Savannah.

CABINETS—See Built-In Features

CALCIUM CHLORIDE—See Concrete Process

CANVASS—See Roofing Materials

CARBURETORS—See Trucks, Motor Supplies

CARPENTERS' TOOLS—See Tools, Edge, also Tools

CASEMENTS—See Windows, also Windows, Metal

CASEMENT HARDWARE—See Hardware

CASTINGS, Iron, and Cast Products

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus. Covers entire line of products.

CAULKING AND GLAZING COMPOUNDS

Bird & Son, East Walpole, Mass.
2452. *The Handy Man's Helper.* 6 pp. Illus. Presents various uses for *Bird's* plastic cement.

Weatherproof Caulking Co., 756 Washington Av., No., Minneapolis, Minn.
4971. *Literature.* Gives information and prices.

CEILINGS

Lloyd, W. H. S., 105 W. 40th St., New York.
5742. *Anaglypta.* Booklet. Illus. Deals with line of friezes used as substitute for plaster relief.

CEILINGS, METAL—See Metals, etc.

CELLAR DRAINS—See Plumbing Equipment

CEMENT—Portland

Kosmos Portland Cement Co., Louisville, Ky.
3741. *For Enduring Masonry.* Folder. 8 pp. Illus. Discusses use of *Kosmortar*, a building mortar.

Lehigh Portland Cement Co., 30 E. 42nd St., New York.
3771. *Build the Castle of Your Dreams.* 32 pp. Deals with concrete home construction.
3772. *Permanent Satisfaction in Your Building.* Illus. Book. 48 pp. Treats of fire-safe farm construction.
3773. *The Lehigh Magazine.* New House monthly.

Louisville Cement Co., Louisville, Ky.
3821. *Brixment for Perfect Mortar.* Handbook. Contains data.

Pennsylvania Cement Co., 131 E. 46th St., New York.
4291. *Pennsylvania Concrete Manual.* Handbook. 48 pp. Illus. Discusses clay, reinforcing, setting time, slump test, etc.
4292. *Three Booklets.* Deal with phases of Concrete work. By Frank W. Skinner, C.E.

Portland Cement Assn., 111 W. Washington St., Chicago.
4351. *Concrete Masonry Construction.* Catalog. 32 pp. Illus. Contains consideration of approved practices.
4352. *Concrete Floors.* Booklet. 16 pp. Illus. Gives data.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4811. *Ivory Keene's Cement.* Bulletin KC1. Gives data.

CEMENT—High Temperature

Johns-Manville, Inc., 292 Madison Ave., New York.
3552. *Refractory Cements.* 16 pp. Illus. Presents facts and data
3553. *Aerite Boiler Wall Coating.* Illus. Discusses fuel saving.

CEMENT—Magnesite

CEMENT PAINT—See Paint, Cement

CEMENT TOOLS

Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.
2011. *Abram Double Action Long-Handled Cement Finishing Tools* 12 pp. Illus. Shows entire line.
2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.

CHIMNEY CAPS—See Ventilators, also Metals, etc.

CINDER BLOCKS—See Building Blocks

CHISELS—See Tools, Edge

CIRCULAR SAWS—See Saws

CLAMPS

Black Bros. Co., Inc., Mendota, Ill.
2472. *Black Vencer and Glue Room Equipment.* Catalog No. 11. 16 pp. Illus. Covers the line of clamps, presses.
2473. *Gluing Clamps.* 24 pp. Illus.

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
29511. *Brick Clamps.* Leaflet. Illus.

Taylor, James L., Mfg. Co., Poughkeepsie, N. Y.
4751. *Catalog.* Illus. 32 pp. Lists and describes their lines of clamps; with prices
4752. *Clamp Questions.* Illus. Pamphlet. Deals with several types.
4753. *They Know.* Folder. Gives illustrations of two clamps.

CLOTH WALL COVERING—See Wall Covering

CLOTHES CLOSET FIXTURE

Knape & Vogt Mfg. Co., Grand Rapids, Mich.
3691. *Beautiful Clothes Closets.* Booklet. Illus.
3692. *Plans for Modern Clothes Closets.* Folder. Blue prints.

CLOTHES DRYERS

Victor Dryer Co., 1 Shirley St., Worcester, Mass.
5461. *Catalog.* Illus. Includes price list of dryers, brackets, etc.

CLUTCHES—See Hoists

COAL CHUTES

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2952. *Descriptive literature.* Illus.

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.
3171. *Gabriel Chutes.* Descriptive literature.

Majestic Co., Huntington, Ind.
3901. *Six Reasons Why.* Folder. 4 pp. Illus. Explains details of Majestic coal window.

Sykes Metal Lath Co., Niles, O.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.

COLLEGES AND SCHOOLS—See Schools

COLORS, CEMENT, MORTAR, STUCCO—See Mortor Colors

COLUMN BASES

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General catalog. 46 pp. Illus. Covers complete line of Cheney products.

COLUMN AND BEAM COVERING

United States Gypsum Co., 205 W. Monroe St., Chicago.
4812. *Bulletin PT4.* Gives relevant data.

COLUMNS, IRON AND STEEL

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2958. *Stanchions for Basement.* Leaflet. Illus.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp.

COLUMNS, WOOD

Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp Illus. Treats on stair columns for exterior use. 20 cents
3333. *Colonial Entrances.* Booklet. Illus. 24. pp.

Pacific Lumber Co. of Illinois, 2060 McCormick Bldg., Chicago.
4241. *Construction Digest.* Illus. Contains data and description

COMBINATION DOOR—See Doors

COMBINATION WOODWORKERS—See Woodworking Machinery

CONCRETE ACCESSORIES

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2957. *Concrete Inserts.* Descriptive literature. Illus.

Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4201. *Northwestern.* General catalog. 16 pp. Northwestern products, including *Kno-Burn* metal lath, *Longspan Plasta-Saver, Nemco* channels, corner bead and metal waste baskets.
4205. *Designing Data.* Catalog. 94 pp. Covers complete line of *Econo* expanded metal for reinforced concrete.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletin FT3.* Deals with *Floor Voids* for use in concrete.

Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder System.* Catalog. Illus. Takes method of building double monolithic concrete walls without forms

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A Machine That Builds Walls—

THINK OF IT!

The Van Guilder Wallbuilder does by machine the work that for years has been done by hand. Furthermore it erects

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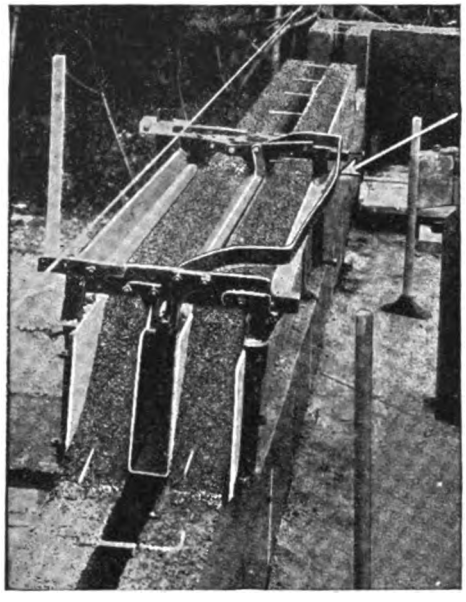
This is because the Wallbuilder eliminates all wood and metal forms which have high first cost and rapid depreciation. In fact, the cost is much lower

Than a Solid Wall

Of great importance is the fact that the machines are not confined to use in simple unpretentious buildings but can be used

For Any Kind of Buildings

The Wallbuilder has been used economically on buildings of all types and styles of architecture from beautiful homes and churches to plain, simple structures such as cold storage plants, factories, garages, etc.



The Van Guilder Wallbuilder, shown in place on the walls, is filled with semi-dry concrete and tamped. Lever, indicated by arrow, is then lifted, which collapses the center core and expands the outside plates, thereby freeing the concrete on all sides. The Wallbuilder is then instantly slid forward. The wall is built at the rate of a foot a minute.

4 SAVINGS

1—Saving on construction of the Wall itself.

2—Elimination of furring and lathing.

3—Elimination of the scratch cost of plaster.

4—Reduction of size and cost of heating plant approximately 20% with a consequent saving in coal consumption.

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Van Guilder System Concrete Building, Inc.

15 East 40th Street, New York, N. Y.

THERE ARE STILL SOME CHOICE TERRITORIES OPEN FOR SALES AGENTS

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Selected List of Manufacturers' Literature

(Continued from page 152)

Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section dealing with their electrically welded wire fabric for concrete reinforcement.

CONCRETE BLOCKS—See Building Blocks

CONCRETE BLOCK MACHINE—See Concrete Machinery

CONCRETE MACHINERY

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2051. *Why Stay a Little Fellow?* Folder. 4 pp. Illus. Describes the *Magic Concrete Mixer.*
2052. *The Concrete Road to Success.* 22 pp. Illus. *Magic Mixer.*

Abram Cement Tool Co., 3818 Grand River Ave., Detroit, Mich.
2012. *The Finishing Touch.* Illus. Periodical dealing with cement finishing and concrete making.

American Cement Machine Co., Keokuk, Iowa.
2101. *Boss Hoists.* Bulletin No. 117. 6 pp. Illus.
2102. *Boss Tilter Mixer.* 12 pp. Illus. Specifications.
2103. *Boss Big One Bagger.* Bulletin No. 5. Illus.
2104. *Boss Heavy Duty Type Mixer.* No. 1024. 30 pp. Illus.
2105. *Boss Combination Paving and Building Mixer.* No. P9.

Anchor Concrete Mchy. Co., Adrian, Mich.
2231. *Anchor Line of Concrete Machinery.* 36 pp. Illus.
2232. *Hobbs Concrete Block Machine.* 16 pp. Illus.
2233. *Handbook* on concrete products machinery. 66 pp. Illus.

C. H. & E. Mfg. Co., Clinton & Mineral Sts., Milwaukee, Wis.
2584. *Mortar Mixers.* Bulletin. Illus.

Chain Belt Co., Milwaukee, Wis.
2681. *Rex Mixers.* Catalog No. 117. 26 pp. Illus. Deals with mixers and mixer equipment.
2682. *Rex Powers.* Catalog No. 118. 42 pp. Illus. Contains descriptions, details, and specifications of various types.

Concrete Equipment Co., Holland, Mich.
2781. *Utility Concrete Equipment.* Catalog. 28 pp. Illus. Shows various types and size of *Utility* concrete block machines.
2782. *Utility High Speed Ramming Machine.* 6 pp. Illus.

Construction Machinery Co., Waterloo, Iowa.
2801. *The Wonder Catalog.* Covers line of *Wonder* Equipment.

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.

Ideal Concrete Machinery Co., 5000 Spring Grove Ave., Cincinnati, O.
3471. *Ideal Concrete Machinery.* Catalog No. 35. 80 pp. Illus. Describes complete line of concrete block, and brick making machines, mixers, hollow tile machines and ornamental molds.
3472. *Ideal Cincinnatus Batch Mixers.* Booklet. 26 pp. Illus.

Jaeger Machine Co., Columbus, O.
3531. *Jaeger Mixers.* Catalog. 36 pp. Illus.

Koehring Co., 31st & Concordia Sts., Milwaukee, Wisc.
3713. *Dandie Mixer.* Circular. Discusses *Dandie* light mixers.
3714. *Concrete—Its Manufacture and Use.* Book. 208 pp.

Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus. Lists such equipment as mixers, scrapers, barrows, hoists, etc.

Miles Mfg. Co., Jackson, Mich.
3991. *General Catalog.* Illus. Presents complete *Miles* line of block and brick machines, power lampers, mixers and moulds.

Ransome Concrete Machinery Co., Dunellen, N. J.
4381. *7-S Building Mixer.* Bulletin 110A. Illus.
4382. *Standard Building Mixers.* Bulletin 112. Illus.
4383. *4-S and 7-S Bantam Mixers.* Bulletin 114. Illus.
4384. *3½-S Tilting Mixer.* Bulletin 116.
4385. *21-E Paving Mixer.* Bulletin 113. Illus.
4386. *Chuting Equipment.* Bulletin 202. Illus.
4387. *Monkey-on-a-Stick.* Bulletin 115. Illus.

Remmel Mfg. Co., Dept. H., Kewaskum, Wis.
4391. *Remmel Catalog*, 1925. Illus. Takes up complete line *Remmel Tilting Type* mixers.
4392. *Remmel Mixers.* 2 Folders. Contains description and data.

Sheldon Mfg. Co., Inc., Box 25, Nehawka, Neb.
4561. *The "Know How" of Concreting.* Illus. Booklet. 127 pp. Contains information on various phases of concrete work.
4562. *A Series of Leaflets*, Folders, etc. Illus.

Smith Co., T. L., Milwaukee, Wisc.
4591. *Smith Simplex Mixer.* Bulletin No. 409-A. 20 pp. Illus.
4592. *Smith Non-Tilting Mixer.* Bulletin No. 405-A. 48 pp. Illus.
4594. *Smith Concrete Mixers and Pavers.* Catalog. Illus. 64 pp.

Stewart Mfg. Co., 124 Rath St., Waterloo, Ia.
4681. *Catalog* 25. Illus. Contains full description of their mixers.

Universal Cement Mold Co., No. Milwaukee, Wis.
5471. *Build the Hollow Wall Way.* Literature.

Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder Machines.* Booklet. Illus. Takes up method of building double monolithic concrete wall without forms.

CONCRETE PROCESSES

General Fireproofing Co., Youngstown, O.
3224. *Crystalrox.* Folder. 4 pp. Illus. Pertains to hardening and dust-proofing of cement floors.
3225. *Metallic Floor Hardener.* Folder. GF. 140. 4 pp. Illus.

Morene Products Co., Inc., 241 W. 28th St., New York.
5371. *Morene, the Wall Finish Distinctive; a Portland Cement Product—Atlas White.* Brochure. Illustrated. Shows examples of *Morene* used for ceiling, wall and mural decorations.
5372. *Folder.* Describes *Morene* and its use as decorative medium.

Solvay Process Co., 40 Rector St., New York.
4601. *For Concrete Summer and Winter.* Illus. Catalog. 16 pp. Describes uses of their calcium chloride for concrete.
4602. *Solvay Calcium Chloride for Concrete Construction.* Illus.

Van Guilder System Concrete Building, Inc., 15 East 40th St., New York.
5581. *Van Guilder System.* Catalog. Illus. Describes building double monolithic concrete walls using Van Guilder machines.

CONCRETE REINFORCING—See Concrete Accessories

CONCRETE SURFACER

Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.
2791. *Berg Surfacer and Finisher.* 8 pp. Illus. Deals with concrete surfacing apparatus.

CONDUCTOR PIPE—See Pipe, Conductor

CONSTRUCTION, FIREPROOF—See Building Construction

COPPER—See Leaders, Flashings and Gutters

CORNER BEAD—See Metals, also Building Construction

CORRESPONDENCE COURSES—See Schools

CORRUGATED ASBESTOS—See Asbestos Products

CRANES

Koehring Co., 31st & Concordia Sts., Milwaukee, Wisc.
3712. *Koehring Booklet.* Lists complete line of products.

CRAYONS, LUMBER

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line of Aloe levels, transits, and drafting material.

DADO HEADS—See Woodworking Machinery

DAMPERS AND ASH DUMPS (FIREPLACE)

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.
3175. *Dome Dampers and Ash Dumps.* Descriptive literature.

Hornet Mantel Co., 1147-A Market St., St. Louis, Mo.
3442. *Homet Dampers.* Descriptive literature. Illus.

Sykes Metal Lath Co., Niles, O.
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with steel building specialties, with specifications and details.

DAMPPROOFING—See Waterproofing, also Stucco, etc.

DECK CLOTH—See Roofing Materials

DERRICKS

Sasgen Derrick Co., 3010 W. Grand Ave., Chicago, Ill.
4531. *Circular No.* 2. Illus. Comprises descriptions of complete line of Sasgen derricks. Includes prices.

DIFFUSING GLASS—See Glass, Ornamental

DIRECT MAIL ADVERTISING—See Mailing Lists

DOOR CHECKS—See Hardware, Window and Door

DOORS, METAL

Bayley Co., Wm., Springfield, O.
2381. *Bayley-Springfield Steel Doors.* Bulletin D21. 4 pp. Illus

Lupton's Sons Co., David, Philadelphia, Pa.
3849. *Lupton's Steel Doors.* Describes several types.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4424. *Monarch Mill-Type Doors.* Illus. Catalog. 8 pp.

Truscon Steel Co., Youngstown, O.
4795. *Truscon Steel Sash.*, Illus. 80 pp. Handbook.
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog. Contains designing data, tables and views of stock sash installations.

DOORS, WOOD

Chicago & Riverdale Lumber Co., Riverdale, Chicago.
5421. *Catalogs.* Illustrated. Cover entire line of doors, sash, etc.

Combination Door Co., Fond-du-lac., Wisc.
2751. *Easy-Change Combination Doors.* Catalog H. Illus. Deals with description of combination storm and screen door.

Long-Bell Lumber Co., R. A. Long Bldg., Kansas City, Mo.
3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.

Morgan Sash & Door Co., Chicago, Ill.
4041. *Building with Assurance.* Catalog. 440 pp. Illus. Shows bungalows and houses (in color) with floor plans. Includes information on interior decorating, etc. Price $2.50 refunded under special conditions. $3.50 west of Rockies, in Canada and Foreign Countries.

Paine Lumber Co., Ltd., Oshkosh, Wisc.
4252. *Paine Miracle Doors.* Catalog. 56 pp. Illus. in color.

Stearns, A. T., Lumber Co., 87 Taylor St., Neponset, Boston, Mass.
4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawings of mantels, columns, doors, sash, windows, blinds.

Wheeler, Osgood Co., Tacoma, Wash.
5021. *Laminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of these doors.
5022. *Laminex Doors.* Catalog 31. Includes 20 designs in vertical and flat grain veneers. Size and details.
5024. *Laminex* Book. For architects and the building trade.

DOORS, SIDEWALK—See also Vault Lights

American 3-Way-Luxfer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2206. 3 *Way-Luxfer Sidewalk Doors.* Bulletin D23. 4 pp. Illus. Describes 5 types, also includes 3-*Way* Automatic door guard.

DOOR FRAMES—See Frames, Door and Window

DOOR AND WINDOW TRIM

Milwaukee Corrugating Co., Milwaukee, Wisc.
4003. *Milcor* Expansion Door and Window *Trim.* 8 pp. Illus.

DOOR BEDS—See Built-In Features

DRAFTING AND SURVEYING MATERIALS

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2053. *Direct By Mail Service.* Catalog. 136 pp. Illus. Covers complete line of Aloe levels, transits and drafting material.

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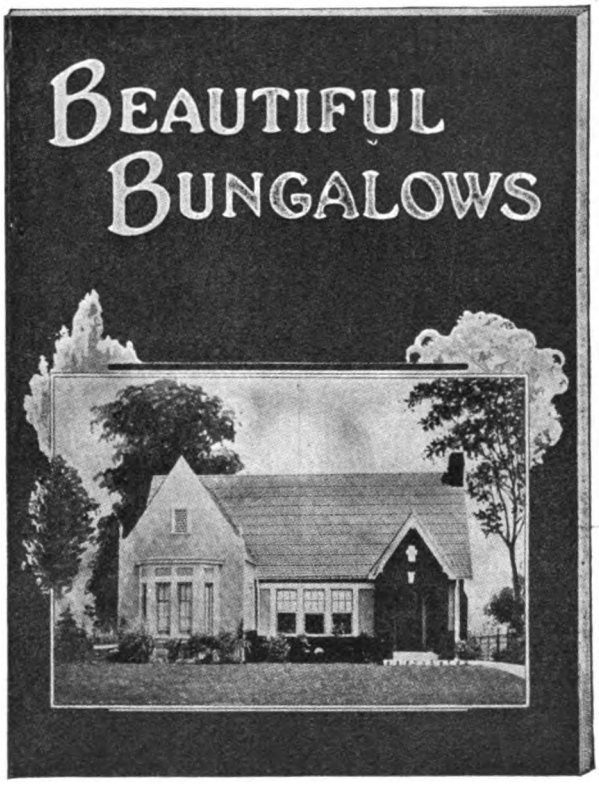
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Selected List of Manufacturers' Literature

(Continued from page 154)

Beckman Co., L., 1002 Jackson Ave., Toledo, O.
2421. *Survey Instruments.* Catalog No. 8. 82 pp. Illus. Covers complete line of *Beckman* levels and transits. With prices.

Geier & Bluhm, Inc., Troy, N. Y.
3201. *Standard Precision Convertible Level.* Circular C. 6 pp.
3202. *Junior Convertible Level.* Circular E. 6 pp. Illus.

Kolesch & Co., 138 Fulton St., New York.
3721. ***Catalogue of Kolesch.*** **Book. 336 pp. Illus. Shows complete line of surveying and drafting instruments**

Master Rule Mfg. Co., Inc., 815 E. 136th St., New York.
3951. *Interior Master Slide Rule.* Folder. 4 pp. Illus.

New York Blue Print Paper Co., 102 Reade St., New York.
4161. *General Catalog.* Illus. Includes complete line.

Warren-Knight Co., 136 N. 12th St., Philadelphia, Pa.
4921. *Sterling Tracing & Detail Papers.* Samples.
4922. *Sterling Levels and Transits.* Catalog. 32 pp. Illus. Contains specifications and structural details of instruments.
4923. *Pocket Note Book.* Illus. Gives instructions for use.

White Co., David, 907 Chestnut St., Milwaukee, Wisc.
5051. Catalog A. *White's Improved Instruments.* Illus. 36 pp.

DRAWING MATERIALS—See Drafting Materials

DRAW PULLS—See Hardware

DUMBWAITERS—(See also Elevators)

Highwood Dumbwaiter Co., Closter, N. J.
5781. Catalog No. 5. Illus. Deals with "Sylvan," "Highwood," "Herculean," etc., types.
5782. *Leaflet.* Illus. Description and specifications.

Sedgwick Machine Works, 156 West 15th St., New York.
4551. *Catalog O.* Illustrated. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiters, brass tube dumb waiters, etc.

ELECTRICAL EQUIPMENT

Erie Fixture Supply Co., Erie, Pa.
5351. *Catalog No. 26.* Describes their line of completely wired lighting fixtures.

General Electric Co., Bridgeport, Conn.
3211. *Electrical Contractors' Catalog.* Illus.
3212. *Wires and Cables.* Catalog. 85 pp. Illus. 4 bulletins.
3213. *Electric Fans.* Folder. 6 pp. Illus. Gives details.
3214. *Reliable Wiring Devices.* Pocket Catalog. 206 pp. Illus. Gives prices and data for switches, rosettes, etc.

Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn.
3311. *H & H Line of Electrical Wiring Devices.* Catalog R. 152 pp. Illus. Presents line of *H & H* wiring equipment.
3312. *Architect's Handbook.* 18 pp. Illus. Contains specifications of *H & H* equipped buildings.
3313. *Tumbler Switch.* Folder. 4 pp. Illus. Describes action of H & H type tumbler switch.

Johns-Manville, Inc., 292 Madison Ave., New York.
3555. *Friction Tapes & Rubber Splicing Compounds.* Folder. 4 pp.
3556. *Fibre Conduits.* Booklet. 12 pp. Illus.
3557. *Electrobestos.* Booklet. 16 pp. Illus.

Western Electric Co., 100 E. 42d St., Mr. C. L. Funnell, New York.
5001. *Inter-Phones Systems.* Descriptive literature.
5002. *Western Electric Lighting Manual.* Gives data.

ELEVATORS

American Saw Mill Mchy. Co., 61 Main St., Hackettstown, N. J.
2172. *General Catalog. No. 22.* Contains description of hoists and general line of woodworking machinery.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Kimball Bros. Co., Council Bluffs, Ia.
3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.

Otis Elevator Co., 11th Ave. and 26th St., New York.
5451. *Catalogs* Concern passenger and freight elevators.

Sedgwick Machine Works, 156 West 15th St., New York.
4551 *Catalog O.* Illus. 52 pp. Lists and describes types of hand-power elevators, dumb waiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumb waiters, fuel lifts, counter dumb waiter, brass tube dumb waiters, etc.

ELEVATOR DOOR EQUIPMENT

McCabe Hanger Mfg. Co., 425-27 W. 25th St., New York.
3851. *Elevator Door Hangers.* Booklet 23-B. 8 pp. Illus. Shows details of *McCabe* elevator door hangers.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4423. *Ideal Elevator Door Equipment and Checking Devices.* Illus. Catalog, A-21. Lists, with prices, elevator door hangers, closers, latches, etc., for various types of doors.

ENGINES

Hercules Corporation, Evansville, Ind.
3361. *Hercules Engines.* Bulletin No. 18. 24 pp. Illus. Presents complete line of Hercules engines. Contains specifications.

FIBRE

Plasterite Company, Plymouth, Mass.
5931. *Plasterite.* Booklet. 16 pp. Illus. Deals with patented plastering fibre to be used in place of hair.

FIBRE BOARD LUMBER—See Wallboard

FIREPLACE FURNISHINGS

Brecher Co., 445 W. Jefferson St., Louisville, Ky.
5241. *Brecher Mantels.* Descriptive literature.

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus. Covers line.

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2951. *Book of Fireplace.* 24 pp. Illus.

Hornet Mantle Co., 1147-A Market St., St. Louis, Mo.
3443. *Hornet Fireplace Furnishings.* Literature. Illus.
3444. *Hornet Wood and Tile Mantels.* Literature. Illus.

Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.
4171. *General Catalog.* No. 10. Illus. Presents complete line.

FIREPROOF CONSTRUCTION—See Building Construction

FLAG POLES

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Pole & Tube Works, Inc., Newark, N. J.
4331. *Flag Poles and Radio Masts.* Provide designs for installations.

FLOOR HARDENERS—See Concrete Processes

FLOOR MAINTENANCE

General Fireproofing Co., Youngstown, O.
3226. *Wood Floor Prescrvative.* Folder GF160. 12 pp. Illus.

Johnson & Son, S. C., Dept. BA4, Racine, Wisc.
3561. *Proper Treatment for Floors, Woodwork, and Furniture.* 32 pp. Illus. Treats on hard and soft wood finish.
3562. *Portfolio of Wood Panels.* 14 pp. Illus. Contains actual panels of finished woods. Includes finishing data.

FLOORING

Armstrong Cork Co., Linoleum Division, Lancaster, Pa.
2271. *Business Floors.* 48 pp. Illus. Data and directions on laying in public and semi-public buildings.
2272. *Armstrong's Linoleum Floors.* Handbook. Illus.

Bruce Co., E. L., Memphis, Tenn.
5701. *Catalog.* 24 pp. Illus. Deals with convenience and wearing qualities of Bruce Oak flooring.

California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of "Information Sheets" on California White Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.

Certain-teed Products Corp., 100 E. 42nd St., New York.
2671. *Linoleum, Floortex, Roll Goods and Rugs.* Descriptive literature, samples and prices.

Long-Bell Lumber Co., R. A. Long Bldg., Kansas City.
3811. *The Perfect Floor.* 16 pp. Illus. Discusses methods of laying, finishing and caring for oak flooring.

Norton Co., Worcester, Mass.
4211. *Norton Floors.* Booklet. 24 pp. Describes the several types of *Alundum* floors with reference to their applications.
4212. *Norton Floors.* Monthly House Organ. 4 pp. Illus.
4213. *Alundum Safety Tile.* Booklet. 38 pp

Oak Flooring Bureau, 1014 Ashland Block, Chicago.
5161. *The Story of Oak Floors.* 24 pp. Illus. Discusses oak for floors and different types of product.
5162. *How and Where to Use Oak Floors.* 16 pp. Illus.
5163. *For School Buildings.* Folder. 6 pp. Illus.
5164. *For Beauty, Economy and Durability.* Folder. 6 pp. Illus.

Pacific Lumber Co. of Illinois, 2060 McCormick Bldg., Chicago.
4241. *Construction Digest.* Illus. Contains data and description.

Ritter Lumber Co., W. M., Columbus, O.
4451. *Ritter Oak Flooring.* Illus. Catalog. 36 pp.

Wood-Mosaic Co., Inc., New Albany, Ind.
5121. *Wood-Mosaic Flooring.* Catalog of wood-carpet, strips, parquetry, tongue and groove flooring in natural wood colors.
5122. *Wood-Mosaic Floors.* Catalog. Illus. 32 pp.

Wright Rubber Products Co., Racine, Wisc.
5142. *Folder.* Illustrates their rubber tile. Shows installations.

FLOORING, COMPOSITION

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2464. *Bishopric Composition Flooring.* Description.

Everlasbestos Flooring Co., Rochester, N. Y.
3041. *The Modern Floor.* Booklet. 16 pp. Illus.

Muller, Franklyn, R., Inc., Waukegan, Ill.
4051. *Asbestone Fireproof Flooring.* 16 pp. Illus. Shows details
4052. *Instruction for preparing and laying Asbestone.* 8 pp. Illus.

Rochond Co., Van Wert, O.
4463. *Rochond Flooring.* Illus. Booklet. Describes properties and application for public buildings, stores, houses, etc.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletins FT 3, SP2.*

FLOORING—Industrial

Johns-Manville, Inc., 292 Madison Ave., New York.
3558. *Flooring That's Made to Fit.* Booklet. 16 pp. Illus.

FLOOR SANDERS—See Floor Surfacing Machinery

FLOOR SURFACING MACHINERY

American Floor Surfacing Machine Co., So. St. Claire St., Toledo, O.
2121. *American Universal.* Booklet. 8 pp. Illus.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2341. *Electric Portable Sander.* Bulletin BE. Illus.

Campbell Machine Co., Inc., 39 Hayward, Wollaston, Mass.
2621. *Catalog.* Illus. 16 pp. Discusses different uses of floor surfacing machine

Chappell & Co., Waywell, 137 No. Jackson St., Waukegan, Ill.
2691. *Little-Automatic Electric Surfacing Machine.* Folder. 4 pp. Ballbearing Electric Floor Surfacing Machine.

Electric Rotary Machine Co., 3825 W. Lake St., Chicago.
3001. *The Electric Rotary Machine.* Catalog. 28 pp. Illus. Covers entire line of floor surfacing, refinishing machinery.

Fox Supply Co., Brooklyn, Wisc.
3161. *Fox Floor Scraper No. 1.* Leaflet. Illus. Includes price.

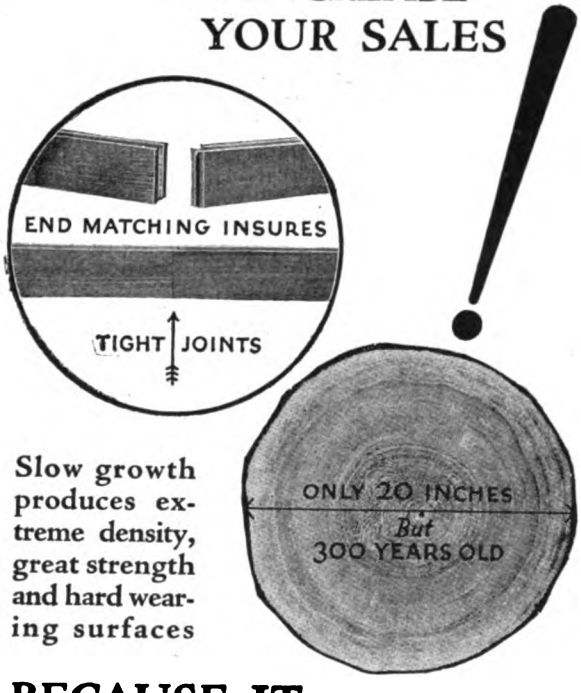
Lincoln-Schlueter Machinery Co., 225 W. Illinois St., Chicago.
3791. *Improved Schlueter Non-Lever Floor Surfacer.* Leaflet.
3792. *Illustrated Letter.* 4 pp. Presents description and data.

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Richmond (Va.) Country Club—
Floored Throughout with Dixie Brand Rift Flooring



THIS FLOORING WILL INCREASE YOUR SALES



Slow growth produces extreme density, great strength and hard wearing surfaces

BECAUSE IT—

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Is Impervious to Wear—
Lays Without Waste—
Disregards Joist Centers—
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Is in Growing Demand.

Manufactured from the tightest grained, long-leaf yellow pine timber that grows, enhanced by the outstanding advanced manufacturing feature of

END-MATCHING

May we send you samples and quote on your next requirements?

JACKSON LUMBER CO.

Manufacturers - LOCKHART, ALABAMA

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SAVANNAH
GEORGIA



A Location for You Nearer to Supply and Demand

For one reason—because of the superior seaport and railroad terminal facilities that first draw raw materials from a vast surrounding territory which can be manufactured here and distributed as finished products at a considerable saving in transportation costs.

For another reason—the tremendous increase in Florida demand for builders' supplies, machinery and all staple products is making Savannah the principal centre for direct water shipment to Miami.

And again—Savannah labor can work all year without interruption by climatic changes. Living conditions are agreeable and economical, and wages are relatively low.

Savannah's present development program is the greatest ever attempted in the South. Nationally known Detroit and New York capitalists have invested heavily in Savannah coastal property. However, there is an abundance of low-priced manufacturing sites on both rail and water. Factory construction is cheaper. Heating plants are unnecessary.

For illustrative booklets and road information, address

BOARD OF TRADE

18 East Broughton Street
SAVANNAH, GEORGIA

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Selected List of Manufacturers' Literature

(Continued from page 156)

3793. *The Marvel.* Folder. 2 pp. Illus. Describes two disc type.
3794. *3 Men and a Lincoln.* Folder. 4 pp. Illus.

Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.
3962. *Master Floor Sander.* Descriptive literature.

National Sanding Machine Co., 543-45 Vedder St., Chicago.
4111. *Super Floor Surfacing Machine.* Catalog. 16 pp. Illus. Explains 5-day trial and 5-year guarantee policy
4112. *The Lightning Electric Floor Surfacer.* Circular. 4 pp.

Triple "A" Machine Co., 4605 Ravenswood Ave., Chicago, Ill.
4771. *Booklet.* Illus. Describes their combination scraper.

FLOOR VOIDS FOR CONCRETING—See Concrete Accessories

FORMS—See Concrete Machinery

FRAMES, DOOR AND WINDOW—See Doors, also Windows

FROST PREVENTATIVE—See Concrete Processes

FURNACES—See Heating Equipment

GARBAGE DESTROYERS—See Incinerators

GARBAGE RECEIVERS

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2953. *Descriptive Literature.* Illus.

Majestic Company, Huntington, Ind.
3903. *Garbage Receivers.* Catalog of Majestic products includes data.

GAS PRODUCERS

American Heating & Lighting Co., Morenci, Mich.
2131. *Gas for Country and Suburban Homes.* 166 pp. Illus.

Detroit Suburban Gas Plant Co., Detroit, Mich.
5831. *Literature.* For suburban homes.

GLASS

American Window Glass Co., Pittsburgh, Pa.
2211. *Complete Window Glass Specifications.* Folder. 4 pp. Illus.

Bayley Co., Wm., Springfield, O.
2388. *Bayley-Springfield Wire Glass Windows.* Bulletin. Illus.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* 36 pp. Illus. Takes up complete line.
4012. *Factrolite.* Leaflet. Deals with the use of this type of glass.

GLASS, ORNAMENTAL

American 3-Way-Luxfer Prism Co., 13 St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2201. *Lux Lens Pressed Tile.* 4 pp. Illus. Describes *Lux Lens* and *Spero Lens* for store fronts and transom lights.
2202. *3 Way-Luxfer Prisms.* 4 pp. Illus. Describes 3-Way Prismatic Glass for store fronts, transoms and upper sash.

Mississippi Wire Glass Co., 220 5th Ave., New York.
4011. *General Catalog.* 36 pp. Illus. Takes up complete line wire glass and ornamental sheet glass. Includes tests.
4012. *Factrolite.* Leaflet. Deals with the use of this type of glass.

GLAZING COMPOUND—See Caulking

GLUE POTS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2347. *Descriptive Literature.* Illus.

Black Bros. Co., Inc., Mendota, Ill.
2471. *Bulletin 11-G.*. 2 pp. Illus. Describes electric glue pot.

Wallace & Co., J. D., 134-153 S. California Ave., Chicago.
4892. *Wallace Machines for Working Wood.* Illus. Catalog.

GRILLES—See also Registers

Hart & Cooley Co., Inc., New Britain, Conn.
3301. *Grilles.* Catalog. Illus. Contains complete information.

Tuttle & Bailey Mfg. Co., 2 W. 45th St., New York.
4801. *Catalog—No. 78, and Special Booklet on Grilles.* Includes *Ferrocraft Grilles* in plain lattice and 500 special designs;

Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section devoted to their perforated metal grilles. Designs in black and white.

GRINDING MACHINERY

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus.

Huther Bros. Saw & Mfg. Co., Rochester, N. Y.
3461. *Huther Grinding Attachment.* Leaflet. 2 pp. Illus.

GUARDS, WINDOW—See Grilles, also Ornamental Iron

GUTTERS—See Leaders, etc.

GYPSUM

United States Gypsum Co., 205 W. Monroe St., Chicago.
4814. *General Catalog RB1.*

HAMMERS—See Tools

HANGERS, DOOR—See Hardware

HARDWARE

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Illus.

Ives Co., H. B., New Haven, Conn.
3521. *Builders' Hardware.* Folder. Illus. Describes *Ives* line.

Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog. No. 57.* 414 pp. Illus. Presents complete line of *Myers pumps*, door hangers, store ladders, etc.

National Mfg. Co., Sterling, Ill.
4091. *National Garage Hardware.* Catalog. 32 pp. Illus. Includes working drawings of garages.
4092. *Builders' Hardware.* Catalog No. 19. 120 pp. Illus.
4093. *Ornamental Ideas.* 24 pp. Illus. Deals with hinge and butt.

Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.
4171. *General Catalog.* No. 10. Illus. Presents complete line.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4424. *Woodworking Vises & Manual Training Benches.* Illus.
4429. *Booklet.* Ill. Describbe big door hardware for round houses.

Sargent & Co., New Haven, Conn.
4521. *Details to Which Standard Hardware Can Be Applied.* Booklet. 6 pp. Illustrated. Treats on construction details.
4522. *Sargent Door Checks.* Folder. Illustrated.

HARDWARE, WINDOW AND DOOR

Barnes Lock & Sash Holder Co., 1830 Tribune Tower, Chicago.
5651. *Barnes Sash Holder.* Leaflet. Illus. Describes substitute for weights and cords. Includes details and instructions.

Caldwell Mfg. Co., 5 Jones St., Rochester, N. Y.
2601. *Suggestions for the Present Day Architect.* Booklet. 16 pp Illus. Gives data for *Caldwell* sash balances.

Casement Hardware Co., 250 Pelouse Bldg., Chicago.
2651. *Catalog.* Illus. Describes *Casement Window Specialties.*

Griffin Mfg. Co., Erie, Pa.
3271. *Hinges.* Book. 72 pp. Illus. Covers complete line.
3272. *Cellar Window Sets.* Folder. 4 pp. Illus.
3273. *Garage Hardware.* Folder. 4 pp. Illus.
3274. *Butt Hinges.* Folder. 6 pp. Illus.

Ives Co., H. B., New Haven, Conn.
3522. *Builders' Hardware.* Catalog No. 15. 148 pp. Illus. Covers complete line of *Ives* window and door hardware specialties.

McCabe Hanger Mfg Co., 425-427 W. 25th St., New York.
3852. *General Catalog.* No. 24-B. 60 pp. Illus. Covers house door, garage, folding partitions, and elevator door hangers.

National Mfg. Co., Sterling, Ill.
4091. *National Garage Hardware.* Catalog. 32 pp. Illus. Include working drawings of garages.
4092. *Builders' Hardware.* Catalog No. 19. 120 pp. Illus.
4093. *Ornamental Ideas.* 24 pp. Illus. Deals with hinge and butt.

Pullman Mfg. Co., Rochester, N. Y.
4371. 15 *Minutes Completes the Job.* Folder. 6 pp. Illus. Discusses *Pullman* spring sash balance.
4372. *Catalog No. 38.* Illus. Takes up all types of *Pullman* spring sash balance.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4421. *Distinctive Garage Door Hardware.* Illustrated Catalog
4422. *Modern Hardware for Your Home.* Illus. 24 pp.
4428. *Catalog No. 40.* Lists sliding and folding partition door hardware.
4429. *Booklet.* Ill. Describes big door hardware for round houses and freight houses.

Sargent & Co., New Haven, Conn.
4521. *Details to Which Standard Hardware Can Be Applied.* Booklet. 6 pp. Illus. Treats on construction details.
4522. *Sargent Door Checks.* Folder. Illustrated.

Star Expansion Bolt Co., 147 Cedar St., New York.
5331. *Literature.* Describes *Drywins*, their expansion shield.

Weisse Mfg. Co., La Crosse, Wisc.
4991. *Literature.* Describes combination glass and screen enclosed porches and casement window hardware.

Whitney Co., Vincent, 444 Mass. Trust Bldg., Boston, Mass.
5071. *Whitco Casement Hardware.* Decriptive literature.

HEATING EQUIPMENT

American Heating & Lighting Co., Morenci, Mich.
2131. *Gas for Country and Suburban Homes.* 16 pp. Illus.

American Radiator Co., 40 W. 40th St., New York.
2161. *The Ideal Fitter.* 21st edition of hand-book. 346 pp. Illus.
2162. *Ideal Type of Heat Machines.* 48 pp. Illus. Details.
2164. *Corto.* 16 pp. Illus. Introduces new radiator.

Bovee Furnace Works, Waterloo, Iowa.
2491. *Warm Air Furnaces.* Broadside. Illus. Deals with *Bovee's* bungalow, horizontal radiator and electric fan blower types.

Buffalo Co-operative Stove Co., Buffalo, N. Y.

Burnham Boiler Corp., Irvington, N. Y.
2571. *Letters To and Fro.* Booklet. Treats of the heating question.

Cheney & Son, S., Manlius, N. Y.
2701. *Price List.* General Catalog. 46 pp. Covers complete line.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.

Hess Warming and Vent. Co., 1207 So. Western Ave., Chicago.
3382. *Modern Furnace Heating.* Catalog. 48 pp. Illus. Describes *Hess* warm air heating systems.

B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.

Majestic Company, Huntington, Ind.
3902. *Ash Pit and Clean Out Doors.* Included in list of Majestic products.

Milwaukee Corrugating Co., Milwaukee, Wis.
40011. *Furnace and Stove Pipe and Fittings.* Catalog No. 25.

Richardson & Boynton Co., 260 5th Ave., New York.
5223. *The Richardson Manual.* 419 pp. Illus. Gives data on "Richardson" Boiler for steam, hot water and vapor system. "Perfect" Warm-Air and Pipeless Furnaces, tank heaters
5221. *Richardson Hot Water Heater.* Describes *Galvanide Water Section* for use in connection with the *Richardson.*
5222. *Your Store.* This and another Booklet, for dealers.

Thatcher Co., 39 St. Francis St., Newark, N. J.
4762. *Catalog.* Contains information *Pipeless Furnace.*
4763. *Catalog.* Illus. Describes their *Tubular Furnace.*

Tuttle & Bailey Mfg. Co., 2 West 45th St., New York.
4802. *Tanbo Antique.* Sample of this Finish for Registers.

United States Radiator Corp., Detroit, Mich.
4831. *Capitol Boilers, Square Type.* Illus. Booklet. 25 pp.
4832. *Capitol Boilers, Winchester Type.* Illus. Booklet. 23 pp.

HEAT INSULATION—See Insulation

HINGES—See Hardware, Window and Door

HOISTS—See also Elevators

C. H. & E. Mfg. Co., Clinton & Mineral Sts., Milwaukee, Wis.
2582. *Descriptive Literature.* Bulletin. Illus.

Kimball Bros. Co., Council Bluffs, Ia.
3681. *Kimball Elevators.* Catalog. Illus. Covers line of elevators and hoists for apartment houses, hotels, etc.

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MISSISSIPPI - WIRE - GLASS - CO.
WG
FIRE RETARDANT No. 32



STANDARD OIL BUILDING
SAN FRANCISCO
Geo. W. Kelham, Architect

Mississippi Wire Glass Co.
220 FIFTH AVENUE, NEW YORK
Chicago St. Louis

For Weatherstrip Men —Opportunity



Many weatherstrip agents have cut out profit losses thru this extraordinary service

MANY weatherstrip businesses show little or no profit.

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3. Careful packing and delivery—no damaged strips.
4. Complete selling and advertising aid.
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This is *Ceco Super Service.* It *must* satisfy you.

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97 percent of the original Ceco agents are still with us. They have sold 45,375 individual jobs. Each year their businesses grow and their profits increase.

There is an opening here for any man who has sold or installed weatherstrips. Perhaps you can become Ceco agent for *your own town.* Write today for full details.

Only prompt action can secure the territory you want. Mail the coupon today, to Ceco Weatherstrip Co., Chicago, Ill.

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METAL WEATHERSTRIPS

"Keep the Weather Out"

CLIP AND MAIL—BE SURE TO FILL IN ALL DATA

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Dept. B-3—1926 So. 52nd Ave., Chicago, Ill.
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I am an experienced weatherstrip man ☐
I have never sold or installed weatherstrips ☐

My present occupation is.....

NAME.....

ADDRESS.....

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Selected List of Manufacturers' Literature

(Continued from page 158)

Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus. Lists such equipment as hoists, mixers, scrapers, etc.
Sedgwick Machine Works, 156 West 15th St., New York.
4551. *Catalog O.* Illus. 52 pp. Lists and describes types of hand-power elevators, dumbwaiters, hatchway hoists, etc.
4552. *Series of Booklets.* Give information on dumbwaiters, fuel lifts, counter dumbwaiter, brass tube dumbwaiters, etc.

HOUSE MOVING
LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3761. *Catalog.* 34 pp. Illus. Deals with house moving appliances.

INCINERATORS
Buffalo Co-operative Stove Co., Buffalo, N. Y.
5821. *Sanotype No.* 10. Deals with gas burning of garbage and waste.
5822. *Sanotype No.* 1. Coal burning for toilet and garbage.
5823. *Isolator.* Gas burning. Hospital.
5824. *Amherst Incinerator.* Booklet. Gas burning garbage destroyer.
5825. *Amherst Incinerator.* Folder.
5826. *Toilet and Waste Destroyer.* Booklet. For coal, coke or wood.
5827. *General Catalog.* Covers entire line.
Kerner Incinerator Co., 1027 Chestnut St., Milwaukee, Wis.
3641. *The Sanitary Elimination of Household Waste.* Folder M-30.

INJECTERS—See Water Systems

INSULATION
Armstrong Cork and Insulation Co., 197-24th St., Pittsburgh.
5531. *Armstrong Corkboard.* Bulletins. Illustrated. Material includes structural details and methods of laying over various types of construction.
Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints and Insulating Paper.*
Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2463. *Bishopric for All Time and Clime.* Booklet. Illus. 44 pp. Describes their heavy weight insulating stucco and plaster base, stucco board, sheathing board, sound deadening stucco.
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2591. *Cabot's Insulating Quilt.* Booklet. 24 pp. Shows with drawings and photographs methods of construction.
2595. *Cabot's Deadening Quilt.* Booklet. 28 pp. Shows with drawings and photographs methods of using sound-deadening quilt.
Celotex Co., 11 W. Washington St., Chicago.
2661. *Your Home.* Catalog. Gives information about *Celotex* and deals with homes. Price 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.
Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.
Flaxlinum Insulating Co., St. Paul, Minn.
3081. *Heat Insulation for Houses.* Treating heat insulation and its relation to residence to residence construction.
3082. *For Comfort and Economy.* Booklet. 32 pp. Illus.
3083. *Standard Specifications.* File 19G. Illus. Contains specifications for heat insulating and sound deadening.
Johns-Manville, Inc., 292 Madison Ave., New York.
3559. *Insulating Materials.* 22 pp. Illustrated.
Ruberoid Co., 95 Madison Ave., New York.
3481. *Ru-ber-oid Facts Worth Knowing.* Illus. Booklet. 20 pp.
United States Gypsum Co., 205 W. Monroe St., Chicago.
4815. *Gyp-Lap Sheathing Board.* Bulletins GL3, Misc. 1.
U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool In Architecture.* Booklet. Illus.

IRONING BOARDS—See Built-In Features

JACKS, BUILDING
LaPlante-Choate Mfg. Co., Cedar Rapids, Ia.
3762. *Jacks.* Descriptive literature.

JOISTS AND STUDS, PRESSED STEEL
General Fireproofing Co., Youngstown, O.
3227. *GF Steel Lumber.* Booklet. 12 pp. Illus. Deals with joists and studs for floor, roofs, and partitions.
3228. *GF Steel Joists.* Booklet. 18 pp. Illus.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.
Truscon Steel Co., Youngstown, O.
4798. *Truscon Steel Joists.* Catalog. Illus. 24 pp.

KITCHEN CABINETS—See Built-In Features

LADDER BRACKETS—See Brackets, Ladder

LATH, EXPANDED METAL AND WOOD—See Stucco Bases

LAUNDRY CHUTES
Pfaudler Co., 217 Cutler Bldg., Rochester, N. Y.
7801. *Glass Lined Laundry Chutes.* Booklet. Illus.

LEADERS, FLASHINGS AND GUTTERS
Milwaukee Corrugating Co., Milwaukee, Wisc.
4004. *Milcor Rain Carrying Equipment.* Folder. 8 pp. Illus.
New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illus. Contains information regarding downspouts and gutters of *Horse Head* zinc.
Wheeling Corrugating Co., Wheeling, W. Va.
5031. *Hand Dipped Conductor Pipe.* Descriptive literature.
Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad. Literature.* Describes leadcoated sheets, roofing, shingles, spouting, gutter, etc.

LEVELS AND TRANSITS—See Drafting and Surveying

LIFTS—See Elevators, also Hoists

LIGHTING—See Electrical Equipment

LIGHTNING RODS
Mast Lightning Rod Co., W. Milton, O.
5571. *Lightning Rods, Fixtures and Ornaments.* Catalog No. 4. Illustrated. Takes up line of copper and galvanized sectional rods.
Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Descriptive Catalog and Price List.* Shows different designs.

LIME
Kelley Island Lime and Transport Co., Cleveland, O.
3611. *Tiger Finish.* Catalog. Illus. Discusses use of *Tiger lime.*
United States Gypsum Co., 205 W. Monroe St., Chicago.
4816. *Bulletins HL1, HL2, HL3, HL4, Spec. 9.*
Woodville Lime Products Co., 622 Madison Ave., Toledo, O.
5131. *Leaflet.* Describes their brands of *Finishing Hydrated Lime.*
5123. *Quality from Stone to Finish.* Broadside

LINOLEUM—See Flooring

LOANS
Miller & Co., G. L., 30 E. 42nd St., New York.
5171. *Descriptive Literature* pertaining to the financing of building.

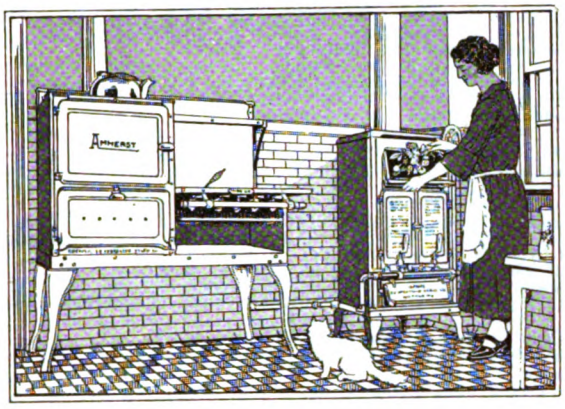
LUMBER AND WOODWORK
Birch Mfgs. Assn., 229 F. R. A. Bldg., Oshkosh, Wis.
2441. *Literature.* Tells of production and use of birch and kindred hardwoods. Gives information on woodwork finishing.
California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of Information Sheets California White and Sugar Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association
Chicago Millwork Supply Co., 1400 West 37th St., Chicago.
5871. *Millwork and Building Material.* Catalog. Illus. Describes their service.
Chicago & Riverdale Lumber Co., Riverdale, Chicago.
5421. *Catalogs.* Illustrated Cover entire line of doors, sash, etc.
Hartmann-Sanders Co., Elston and Webster Aves., Chicago.
3331. *Koll's Lock-Joint Wood Columns.* Catalog D-47. 48 pp. Illus. Treats on stair columns for exterior use. Price 20 cents.
3333. *Colonial Entrances.* Booklet. Illus. 24 pp.
Jackson Lumber Co., Lockhart, Ala.
5771. *Builders Lumber.* Literature. Illus.
Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3812. *The Post Everlasting.* Booklet. 32 pp. Illus. Gives information on creosoted yellow pine fence posts, etc.
3813. *Poles That Resist Decay.* Booklet. 16 pp. Illus.
Mcrgan Sash & Door Co., Chicago, Ill.
4041. *Building With Assurance.* Catalog. 440 pp. Illus. Shows bungalows and houses (in color) with floor plans. Includes information on interior decorating, etc. Price, $2.50, refunded under special conditions. $3.50 west of Rockies, in Canada and Foreign Countries.
Oak Service Bureau, Bank of Commerce Bldg., Memphis, Tenn.
5901. *The Charm of Modern Oak.* Booklet. Tells of the Renaissance of Oak for woodwork finish.
Pacific Lumber Co. of Illinois, 2000 McCormick Bldg., Chicago.
4241. *Construction Digest.* Illus. Contains data and description.
Southern Cypress Mfg. Assn., New Orleans, La.
4611. *Descriptive literature.*
Southern Pine Association, New Orleans, La.
5921. *Literature.* Discusses value of Grade-Marked lumber.
Stearns, A. T. Lumber Co., 87 Taylor St., Neponset, Boston.
4641. *Catalog L.* Illus. 80 pp. Describes and contains working drawing of mantels, columns, doors, sash windows, blinds.
Weatherbest Stained Shingle Co., Inc., 145 Main St., North Tonawanda, N. Y.
4962. *Literature* deals with cost of *Weatherbest Stained Shingle* side walls. Includes samples showing Weatherbest color.
4963. *Book.* Newly published book, devoted to remodeling.
Western Pine Mfrs. Assn., 510-517 Yeon Bldg., Portland, Ore.
5011. *The Pondosa Story.* Booklet. Treats of development of Western Pine industry.

MARKING DEVICES—See Branding Irons

MARQUISES
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp.

METALS AND METAL BUILDING SPECIALTIES
American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
2181. *Reference Book. Pocket Edition.* Illus. 168 pp.
2182. *Apollo and Apollo-Keystone Galvanized Sheets.* Catalog. Illus.
2183. *Research in the Corrosion Resistance of Copper Steel.* Booklet. Illus. 24 pp. Gives technical information.
2184. *Facts Simply and Briefly Told.* Booklet. Illus. 16 pp. Gives non-technical statements on *Keystone Copper Steel.*
Bridgeport Brass Co., Bridgeport, Conn.
2511. *Seven Centuries of Brass Making.* Booklet. 77 pp. Illus.
2512. *Tested High Speed Brass Rods.* Booklet. 16 pp.
2513. *Data Book.* Booklet No. 16 48 pp. Illus. Tables and data.
2515. *Bridgeport Ledrite Rod-O-Graph.* Chart showing way to figure weight of brass rod to make screw machine parts.
Donley Bros. Co., 12920 Miles Ave., Chicago.
2954. *Donley Devices.* Catalog. 36 pp. Illus. Covers Donley line.
Edwards Manufacturing Co., Cincinnati, O.
2991. *Edwards Metal Roofing,* etc. Catalog. 224 pp. Illus.
General Freproofing Co., Youngstown, O.
32213. *GF Metal Building Specialties.* Folder A. I. A. File No. 16E2. 20 pp. Illus. Includes information on bridging, etc.
Globe Ventilator Co., Dept. L., Troy, N. Y.
3261. *Globe Ventilator* and *Globe Chimney Cap.* Provide specifications on contract work.
Milwaukee Corrugating Co., Milwaukee, Wis.
4002. *Metal Ceilings.* General Catalog 26. 144 pp. Illus. Deals with line of metal ceilings and specialties.
4012. *Catalog No.* 27. 14 pp. Illus. Designs of Invisible joint ceilings, individual field plates, cornices, etc.
New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illustrated. Describes their leader pipes, eaves troughs, and other zinc products.

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RIGHT IN YOUR KITCHEN

where it is most convenient.

THE AMHERST INCINERATOR

(Garbage Burner)

Will save many steps and frequent trips out of doors.

It is sanitary. You only handle the garbage once, drop it into the incinerator and it is out of sight forever.

A little clean ash is all that is left of an annoying problem.

No odor is emitted from the incinerator, the refuse can be stored in it for weeks without annoyance; in fact, the incinerator acts as a ventilator, as a continuous circulation of air passes thru the garbage and prepares it for incineration.

There will be no smoke or odor—we guarantee it—either in or out of doors during a burning.

Each burning sterilizes the apparatus.

It promotes sanitation and health.

Incinerators for Hospitals, Apartment Houses and Factories. Coal and Gas Burning Types.

Buffalo Co-operative Stove Co.

Mfrs. of the largest line of Incinerators in the world.

BUFFALO, N. Y.

DISTRIBUTORS

James A. Rabbitt.....20 Broad Street, New York, N. Y.
Ben. I. Hall, Jr.....225 Spring Street, Atlanta, Ga.
Bockfinger & Cass.....10 E. Huron Street, Chicago, Ill.
George A. Rawlings.....Arcade Building, St. Louis, Mo.
S. Howard Eisenberg.....608 Empire Building, Denver, Colo.
Utah Gas & Coke Co.....Salt Lake City
Gottlieb & Bockfinger
422 Sutter St., San Francisco, Calif.
C. P. Helpman
722 Story Building, Los Angeles, Calif.



Long-Bell Oak Flooring

THE widespread use of Long-Bell trade-marked oak flooring is proof of its durability, beauty and economy.

Safeguards in the manufacture of this flooring assure maximum construction economy, particularly in laying and finishing costs.

Long-Bell trade-marked oak flooring is made to give lasting satisfaction to architect and builder alike. Sold by retail lumber dealers.

THE LONG-BELL LUMBER COMPANY
Lumbermen Since 1875
R. A. Long Bldg. Kansas City, Mo.

LONG-BELL
Trade Marked LUMBER

Douglas Fir Lumber and Timbers; Southern Pine Lumber and Timbers; Creosoted Lumber, Timbers, Posts, Poles, Ties, Guard-Rail Posts, Piling; Southern Hardwood Lumber and Timbers; Oak Flooring; California White Pine Lumber; Sash and Doors.

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Selected List of Manufacturers' Literature

(Continued from page 160)

4157. *The Roof That Is Ever New.* Folder. Illustrated. Describes their Horse Head Zinc Roofing.

Sheet Steel Trade Extension Com., 715 Oliver Bldg., Pittsburgh.
5661. *Sheet Steel Service.* Monthly magazine. Deals with promotion work carried on in the interests of sheet steel.

Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad.* Literature. Describes lead coated sheets, roofing, shingles, spouting, gutter, etc.

MILLWORK—See Lumber and Woodwork

MINERAL WOOL—See also Insulation

U. S. Mineral Wool Co., 280 Madison Ave., New York.
4821. *The Use of Mineral Wool in Architecture.* Booklet. Illus.

MOLDS, CONCRETE—See Concrete Machinery

MORTAR BOARDS AND BOXES

Donley Bros. Co., 12920 Miles Ave., Cleveland, O.
2959. *Mortar Boxes.* Descriptive literature concerning metal boxes.

MORTAR COLORS

Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus.

Clinton Metallic Paint Co., Clinton, N. Y.
2731. *Clinton Mortar Color.* Folder. Illus. Gives directions.
2732. *Color Card.* Portrays various shades.
2733. *Color Harmony in Brickwork.* Series of 6 folders. Illus.

OIL CLOTH—See Wall Covering, also Flooring

ORNAMENTAL IRON AND BRASS

American Brass Co., Waterbury, Conn.
2091. *Anaconda Extruded Shapes.* Folder. 4 pp. Illus. Contains color plate of full size extruded shapes of brass.

Cincinnati Iron Fence Co., 3300 Spring Grove Ave., Cincinnati, O.
2721. *Iron Fence, Gates, Grilles, Window Guards.* Broadside. Illus.

International Steel & Iron Co., Evansville, Ind.
4501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.

Mast Lightning Rod Co., W. Milton, O.
5571. *Lightning Rods, Fixtures and Ornaments.* Catalog No. 4.

Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes section showing their ornamental iron fence and gates.

PACKAGE RECEIVERS

Donley Bros. Co., 12920 Miles Ave., Cleveland, O.
2955. *Descriptive literature.* Illus.

PAINTS, STAINS, VARNISHES AND WOOD FINISHES

Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Paints.* Descriptive.

Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2592. *Cabot's Creosote Stains.* 16 pp. Illus. Gives description.

Certain-teed Products Corp., 100 E. 42nd St., New York.
2672. *Paints, Enamels, Varnishes, etc.* Literature. Includes samples, color cards, and prices.

General Fireproofing Co., Youngstown, O.
32214. *GF Floor Enamel.* Bulletin No. 155. 4 pp. Illus. Treats preserving and decorating of cement floors.

Johnson & Son, S. C., Dept. BA4, Racine, Wis.
3561. *Proper Treatment for Floors, Woodwork and Furniture.*
3562. *Portfolio of Wood Panels.* 14 pp. Contains actual panels.

New Jersey Zinc Co., 160 Front St., New York.
4152. *Mapaz Handbook.* Illus. *Mapaz No. 1,* a zinc oxide paint.
4153. *Zinc as a Paint Pigment.* Pamphlet. Illus.
4154. *40-40-20.* Booklet. Describes new exterior paint made from *Albalith* and XX zinc oxide with 40-40-20 formula.

Paasche Air Brush Co., 1909 Diversey Parkway, Chicago.
5731. *Descriptive Literature.* Illus. Takes up details concerning use of air brush equipment in painting work.

Toch Bros., 110 E. 42nd St., New York.
5331. *Specifications.* 60 pp. illus. catalog. Specifications for dampproofing, waterproofing, enameling.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4817. *Textone.* T3. Architects' specifications for *Textone.*

PAINTS, CEMENT

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2461. *Bishopric Sunfast Finish.* Folder. Illus. Shows reproductions in color of houses with finish applied.
2462. *Color Card.* Contains sample colors of *Sunfast Finish.*

Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
2593. *Cabot's Stucco and Brick Stains.* Booklet. 14 pp. Illus.

PANELS—See Veneer, Wallboard, Panels, Wood

PANELS, WOOD

American Plywood Corp., New London, Wis.
2151. *Plywood Stock List.* Concerns use of panels for built-in work.

PARQUET FLOORING—See Flooring

PARTITIONS

Alberene Stone Co., 153 W. 23d St., New York.
2032. *Illustrated literature* on toilet partitions of soapstone.

Lupton's Sons Co., David, Philadelphia, Pa.
3847. *Catalog D.* Describes steel shelving of various types. One p. on partitions.

McCabe Hanger Mfg. Co., 425-427 W. 25th St., New York.
3853. *Accordion and Folding Door Hangers.* Booklet No. 22-B.

Richards-Wilcox Mfg. Co., Aurora, Ill.
4426. *Partitions.* Illus. Booklet. 32 pp. Shows tracks and hangers for various styles of door partitions.
4428. *Catalog No. 40.* Lists sliding and folding partition door hardware.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4818. *Pyrobar Partition and Furring Tile Book.* Bulletin PT3.

PERGOLAS

Hartmann-Sanders Co., Elston & Webster Aves., Chicago.
3332. *Arbors and Pergolas.* Circular D-61. 4 pp. Illus.

PIPE—See also Metals and Metal Building Specialties

American Brass Co., Waterbury, Conn.
2092. *Ten Years Hence.* Booklet. 16 pp. Illus. Discusses the problem of permanent water pipe installation in the home.
2093. *Brass Pipe for Water Service.* Publication B1, 2nd edition.

Bridgeport Brass Co., Bridgeport, Conn.
2513. *Data Book.* Booklet No. 16. 48 pp. Illus. Tables and data.
2514. *Brass Pipe and Pipings.* Bulletin No. 15. Illus.

Johnson Plumbing Supply Co., 3641-43 So. Halsted St., Chicago.
3571. *Johnson Catalog.* Illus. Covers entire line.

PIPE, CONDUCTOR

Lupton's Sons Co., David, Philadelphia, Pa.
3848. *Literature.* Illus. Describes ventilators and conductor pipe

Milwaukee Corrugating Co., Milwaukee, Wis.
4002. *General Catalog No. 26.* 144 pp. Illus

New Jersey Zinc Co., 160 Front St., New York.
4151. *Once in a Lifetime.* Booklet. Illus. Contains information regarding downspouts and gutters of *Horse Head* zinc.

Wheeling Corrugating Co., Wheeling, W. Va.
5031. *Hand-Dipped Conductor Pipe.* Descriptive literature.

PLANS

American Face Brick Assn., 130 N. Wells St., Chicago.
Bungalow and Small House Plans. (See listings under Brick.)

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2465. *Bishopric Plan Book.* Illus. Contains 32 suggestions for houses costing from $7,000 to $20,000. Price, 25 cents.

Chicago Technical College, 1038 Chicago Tech. Bldg., Chicago.
2711. *Five Room Bungalow.* Blue print plans.

Common Brick Manufacturers' Assn., 2121 Title Guarantee Bldg., Cleveland, O.

City and Farm House Plans. (See listings under Brick.)

Contractors Plan Service Co., Box 115, Dayton, O.
5251. *Plan Books.* Descriptive literature.

Keith Corp., 100 N. 7th St., Minneapolis, Minn.
3602. *Keith's Magazine.* Monthly. Subscription offer of $3.25 includes 278-page De Luxe edition, "Beautiful Homes."

Stevenson, R. L., 521 Paddock Bldg., Boston, Mass.
4671. *Homes of Character.* Folder. 4 pp. Illus. Describes the book, "Homes of Character," containing 100 designs of houses from $5,000 to $20,000, with floor plans, etc. Price of books, $2.00 de Luxe edition; $1.00 paper bound.

Stillwell, E. W., & Co., 270 California Bldg., Los Angeles, Cal.
4691. *All-American Homes.* 50 houses, 7 to 10 rooms. $1.00.
4692. *The New Colonials.* 50 houses, 6 to 10 rooms. $1.00.
4693. *Southwest Stucco Homes.* 75 duplexes to bungalows. $2.00.
4694. *Little Bungalows.* 75 houses, 3 to 5 rooms. $1.00.

PLASTER BASE—See Stucco Base, also Lath

PLASTER BOARD—See Wallboard

PLASTERING MATERIAL—See Lime, also Fibre

PLUMBING EQUIPMENT—See also Bathroom Fixtures

Alberene Stone Co., 153 W. 23d St., New York.
2033. *Illustrated literature* on soapstone kitchen sinks.

Chemical Toilet Corp., 801-21 Free St., Syracuse, N. Y.
5641. *Sani-Equip Septic Tanks and Waterless Toilets.* Booklet. Illus. Describes a chemical toilet installation

Crane Co., 836 S. Michigan Ave. Chicago.
2842. *Plumbing Suggestions for Industrial Plants.* 44 pp. Illus.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
3291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing, bathroom and heating equipment. 50 cents.

B. Karol & Sons Co., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, waterworks fields.

Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
3631. *Kenney Curtainless Shower.* Catalog A. Illus.

Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4283. *Penberthy Injectors.* Series of folders. Illus. Describe various types and models
4284. *Washing Machine Drainer.* 4 pp. Illus. Explains how product is used with faucet attachment.
4285. *Safeguard Water Gage.* 4 pp. Illus.
4281. *Automatic Cellar Drainer.* Folder. 8 pp. Illus. Gives prices.
4289. *Sales Talks.* Semi-monthly pamphlet for jobbers.

PORCHES

Thomas J. Malia, 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes porch enclosures, metal weather strips and rust-proof fly screens.

Weisse Mfg. Co., La Crosse, Wis.
4991. *Literature.* Describes combination glass and screen enclosed porches.

PUMPS

C. H. & E. Manufacturing Co., Clinton & Mineral Sts., Milwaukee, Wis.
2582. *Power-Driven Diaphragm, Road, and Centrifugal Pumps.* Literature. Illus.

Dayton Pump & Mfg. Co., Dayton, O.
2901. *Catalog.* Describes their pumps for light and heavy work.

Fairbanks, Morse & Co., 909 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets. Directs attention of builders and architects to home water systems.

Flint & Walling Mfg. Co., Kendallville, Ind.
3091. *Running Water Under Pressure.* Catalog No. 115. 48 pp. Illus. Deals with water systems, including pumps, tanks, etc.

Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 57. 414 pp. Illus.

PYROBAR GYPSUM TILE

United States Gypsum Co., 205 W. Monroe St., Chicago.
4813. *Bulletin PT3.* Architectural data, *Pyrobar* partition tile.

RADIATORS

American Radiator Co., 40 W. 40th St., New York.
2164. *"Corto, the Radiator Classic."* 16 pp. Illus.

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"Removed Four Radiators"

Two More "Never Used"

This saving in heat is the result of *Insulating* the roof and walls of this church in Halifax with

Cabot's Insulating "Quilt"

Read the following statement by the Pastor:



"This building was covered all over with Cabot's Quilt, with the best results. The roof, which is an open one inside, showed no signs of frost. The same amount of radiation was put in the building as the heating engineers usually install. We have removed four radiators already . . . We have retained two which are never used. We attribute this saving to your Quilt."

(Rev.) T. O'Sullivan

Insulated with Cabot's Quilt—St. Thomas Aquinas, Halifax, N. S.

Cabot's Quilt Saves Coal

Two tons of coal will do the work of nearly three, because Quilt insulates the heat and prevents it from escaping. Figure out how much this will save your customer every Winter as long as the house stands. Quilt holds the heat like a fireless cooker.

Send for a sample of Quilt. Free. It's a "comforter" that keeps the whole family warm.

Samuel Cabot, Inc., Mfg. Chemists

Boston, Mass.

342 Madison Ave., New York
5000 Bloomingdale Ave., Chicago

Philadelphia · Kansas City · San Francisco · Minneapolis · Portland · Los Angeles



Agents All Over the Country

Cabot's Creosote Stains, Stained Shingles, Old Virginia White, Double White, Waterproof Stucco and Brick Stains, Etc.

PENBERTHY PRODUCTS

Reg. U. S. Pat. Off.

Improved Model "R"

Automatic

CELLAR DRAINER

requires less floor space than any similar device on the market, due to its patented float "built around suction tube" construction. An important factor in small basements. Your customers will find the Penberthy

More Efficient
More Durable
More Reliable
More Economical



The movement has only one point of friction, is extremely simple and unaffected by dirt. There are no springs, the rotary packing movement being based upon unchanging natural laws. It pays to install a Penberthy.

Your Jobber Has Them

Penberthy Injector Co.

Established 1866

1250 Holden Ave. **Detroit, Mich.**

Canadian Plant, Windsor, Ontario

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Selected List of Manufacturers' Literature

(Continued from page 162)

2161. *The Ideal Fitter.* 21st edition of hand book. 346 pp. Illus. Contains tables and specifications concerning radiator fitting.
4834. *Triton Plan U. S. Radiators.* Illustrated booklet. 23 pp.

RADIO PRODUCTS

Mast Lightning Rod Co., W. Milton, O.
5571. *Mast Radio Connectors.* Catalog No. 4. Deals with sectional form of lightning rod for aerial use.

Penberthy Injector Co., Holden Ave., and Grand Trunk Ry., Detroit, Mich.
4286. *Radio Apparatus.* Series of folders. Illus. Describe *Penberthy* head phones, loud speakers, crystal sets, etc.

Pole & Tube Works, Inc., Newark, N. J.
4331. *Flag Poles and Radio Mast.* Provide designs.

RANGES—See also Heating Equipment

American Heating & Lighting Co., Morenci, Mich.
2133. *Clark Jewel Stoves.* 12 pp. Illus. For use with cold process gasoline gas.

American Stove Co., Lorain, O.
2191. *Catalog No. 94.* Illus. 70 pp. Describes *Clark Jewel Gas Stoves* with *Lorain Heat Regulator.*
2192. *Catalog No. 95.* Illus. 24 pp. *Direct Action Oil Stoves* with *Lorain High Speed Burner.*
2194. *Catalog No. 97.* Illus. 24 pp. Gives information on direct action coal ranges.
2195. *Catalog No. 117.* Illus. 42 pp. Describes *Clark Jewel* oil and gasoline stoves with *Lorain* burners.

Ohio State Stove & Mfg Co., 666 Lakeshore Drive, Chicago.
4231. *The Kab Range.* Catalog BA-3. Illus. Describes a combination of the *Packer All-Steel Kitchen Cabinet* and *Ranges.*

Standard Gas Equipment Corp., 18 E. 41st St., New York.
4621. *Vulcan Gas Ranges and Appliances.* Catalog 48. Illus.
4622. *Vulcan Gas Equipment* for Hotels, Hospitals, Restaurants, etc.
4623. *The Vulcan Bulletin.* Monthly house organ.
4624. *How Kitchen Space Was Saved in Planning.* Practical specification folder with plans.
4625. *Oriole Gas Ranges.* Catalog. 50 pp. Illus.

Thatcher Co., 39 St. Francis St., Newark, N. J.
4764. *Catalog.* Illus. Gives information relating to their ranges.

REFRIGERATORS

Herrick Refrigerator Co., Waterloo, Ia.
3371. *Refrigerators.* 56 pp. Describes various types.

REGISTERS

Hart & Cooley Co., Inc., New Britain, Conn.
3862. *Refrigerators for Hotels, Clubs, and Restaurants.* Catalog.
3302. *Registers.* Catalog No. 24. Illus. Contains complete list.

Majestic Company, Huntington, Ind.
3904. *Majestic Line.* Various items of Malleable Iron and Copper Steel.

Tuttle & Bailey Mfg. Co., 2 West 45th St., New York.
4802. *Tanbo Antique.* Sample of this finish for registers.

ROOF INSULATION—See Insulation

ROOFING MACHINERY

Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit for the manufacture of building blocks and tile.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.

Hansen Co., L., 2303 Ward Ave., Kansas City, Mo.
3281. *Roofing Tile.* Bulletin. Explains use of Hansen machines.
3282. *Circular.* Describes roof tile making machinery.

ROOFING MATERIALS

American Insulation Co., Roberts Ave. and Stokley St., Philadelphia.
2142. *Make Your Next Roof Last.* 6 pp. Illus. Deals with *Eternit* asbestos shingles.
2143. *Building a Roof That Beautifies and Lasts.* 22 pp. Illus

American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
2186. *Better Buildings.* Catalog. 32 pp. Describes corrugated and formed sheet steel roofing and siding products.
2187. *Copper—Its Effect Upon Steel for Roofing Tin.* Catalog. Illus.

Asbestos Shingle, Slate & Sheathing Company, Ambler, Pa.
2281. *Ambler Asbestos Shingles.* Catalog. 44 pp. Illus.
2282. *Ambler Asbesto Corrugated Roofing and Siding.* Catalog.
2284. *Engineer's Data Sheets.* 40 pp. Illus. Specifications.

Barrell Co., Wm. L., of N. Y., Inc., 50 Leonard St., New York.
2361. *Con-ser-tex Canvas Roofing.* Describes treated fabric used for roofing, with directions for laying.

Barrett Co., 40 Rector St., New York.
2371. *Better Home for Old Houses.* Shows common type of old houses. Contains suggestions from leading architects.
2372. *Barrett Roofings for Every Purpose.* Folder.
2373. *Barrett Special Products.* Folder.
2374. *Barrett Giant Shingles.* Folder.
2375. *Barrett Specialties.* Booklet.
2376. *Handbook.* 96 pp. Describes products.

Beaver Products Co., Inc., Buffalo, N. Y.
2401. *Catalog.* Illus. Describes their shingles, roll roofing, etc.
2402. *Literature.* Describes plan for repair and remodeling work on time payment plan.

Beckman-Dawson Roofing Co., 11 W. Jackson Blvd., Chicago.
2411. *Shelter.* Booklet. 16 pp. Illus. Takes up development of roofing material from primitive times to today.
2412. *Asphalt Shingles.* Series of folders. Deal with tests and application of *Winthrop* tapered shingles.

Bird & Son, East Walpole, Mass.
2453. *Liquid Roof Coating.* Folder. 4 pp. Illus. Explains use as protectant. Includes description of plastic cement.

Boyle & Co., John, Inc., 112 Duane St., New York.
2051. *Prepared Canvas.* 4 pp. Illus. Concerns *Bayonne* roof and deck cloth. Includes prices.

Carey Co., Philip, 520-540 Wayne Ave., Cincinnati, O.
2641. *Before You Build.* Booklet. Discusses use and qualities of *Asfaltslate.* Sample sent.

Certain-teed Products Corp., 100 E. 42nd St., New York.
2673. *Certain-teed Roofs.* Literature. Includes color cards, prices.

Cortright Metal Roofing Co., Philadelphia, Pa.
2831. *Cortright Metal Shingles.* Booklet. 8 pp. Illus.
2832. *Catalog.* Illus. Deals with metal shingle roofing.

Edwards Manufacturing Co., Cincinnati, O.
2091. *Edwards Metal Roofing, etc.* Catalog. 224 pp. Illus. Covers complete line of *Edwards* products.

Holorib, Inc., Cleveland, O.
5761. *Insulated Roofs.* Catalog. Takes up roof sheets of steel fabricated by special process.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog. Supplement 22. 24 pp. Illus.

Johns-Manville, Inc., 292 Madison Ave., New York.
35512. *Asbestos Roofing.* 4 pp. Illus. Takes up *Brooks Brand,* white top roofing.
35513. *Rocks or Rags.* 14 pp. Illus. Tells of material used in *J-M* shingles.
35515. *Ready-to-Lay Roofing.* 16 pp. Ill.

Keystone Roofing Mfg. Co., York, Pa.
3661. *The Magic Touch of Preston Shingles.* Booklet. Describes application of *Hexo-Diamond* slate-coated asphalt shingles. Includes sample.

Knickerbocker Slate Corporation, 153 E. 38th St., New York.
3701. *Slate.* Booklet. 16 pp. Illus.

Malleable Iron Fittings Co., Branford, Conn.
5311. *Nail Knowledge.* Booklet. Illus. 16 pp. Gives data on their zinc coated, rust-proof shingle and slating nails.

Milwaukee Corrugating Co., Milwaukee, Wis.
4006. *Milcor Slate Roofs.* 12 pp. Illus. *Titelock Metal Tile.*
4007. *Milcor Roofs of Permanent Beauty.* 4 pp. Illus. Shows use of Milcor Spanish Tile.

Nat'l. Sheet Metal Roofing Co., 339-45 Grand St., Jersey City, N. J.
4121. *Shingles That Last.* Illus. Offers various types of metal and asbestos shingles and roofing material.
4122. *Metal Shingles, Spanish Metal Tile, and Metal Roofing.* Literature. Illus.

Nelson Mfg. Co., B. F., Minneapolis, Minn.
4131. *Quality Roofs.* Folder. 12 pp. Illus. Deals with *Nelson Master Slab Roof.* Includes plates in color and samples.

New Jersey Zinc Co., 160 Front St., New York.
4155. *Standing Seam Horse Head Zinc Roofing.* Folder. Includes instructions for laying details, and data.
4157. *The Roof That Is Ever New.* Folder. Illustrated.

Richardson Co., Lockland, Cincinnati, O.
4411. *Biskalt Membrane Roofs.* 36 pp. Contains specifications for applying membrane roof over boards and concrete.
4412. *Roofs of Distinction.* Illus. catalog. 20 pp. Discusses roofing problems, weather defense, etc.
4413. *Lok-Lap Asphalt Shingles.* Illus. 10 pp. Describes laying of this shingle in various designs.
4414. *What Color for the Roof?* Illus. booklet. 19 pp. Takes up uses of *Multicrome* roofs in various styles and types.

Ruberoid Co., 95 Madison Ave., New York.
4481. *Ru-ber-oid Facts Worth Knowing.* Illus. Booklet. 20 pp.
4482. *Eight Folders.* Series of 8. Deals with strip shingles, roofing, liquid fibre-cement, roof coating, etc.

Stearns Lumber Co., A. T., 87 Taylor St., Neponset, Boston.
4642. *Cypress Lumber and Its Uses.* Booklet. Illus. 48 pp.

United States Gypsum Co., 205 W. Monroe St., Chicago.
4819. *Bulletin RT27.* Architectural data. *Pyrobar* construction.
4813. *Bulletin SP2. Sheetrock Pyrofill* roof and floor construction.

Vendor Slate Co., Inc., Easton, Pa.
4861. *A Book for Architects.* Illus. Catalog. 24 pp.
4862. *Vendor Book of Roofing, Slate for Architects.* Illus. 44 pp.

Weatherbest Stained Shingle Co., Inc., 145 Main St., North Tonawanda, N. Y.
4961. *Book.* Describes *Weatherbest Thatched Effect Roof Construction.* Also, a set of samples showing *Weatherbest* colors.
4963. *Book.* Devoted to remodeling of old homes.

Wheeling Corrugating Co., Wheeling, W. Va.
5032. *Descriptive literature.*

Wheeling Metal & Mfg. Co., Wheeling, Va.
5711. *Leadclad.* Literature. Describes lead coated sheets, roofing, shingles, spouting, gutter, etc.

ROOF TRUSSES

McKeown Bros. Co., 21 E. 40th St., New York.
3871. *Clear Floor Space.* Folder. 4 pp. Takes up various types of trusses used in building construction.

ROUTERS AND CARVERS—See Woodworking Machinery

RULES—See Drafting and Surveying

SALAMANDERS

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
20512. *Donley Salamanders.* Leaflet. Illus.

SANDERS—See Floor Surfacing Machinery
SANITAS—See Wall Covering
SASH—See Windows
SASH BALANCES—See Hardware, Window

SASH CORDS

Bayley Co., Wm., Springfield, O.
2387. *Bayley-Springfield Operators.* Booklet P19. 8 pp. Illus.

Samson Cordage Works, 88 Broad St., Boston, Mass.
4501. *There Is a Difference in Sash Cord.* Folder. Illus. Describes *Spot* sash cord and *Phoenix* sash cord.
4502. *Catalog.* Includes samples of sash cord.

SAW FILES AND SETTERS

Atkins & Co., E. C., Indianapolis, Ind.
2301. *Saws, Saw Tools and Machine Knives.* Catalog. 272 pp. Illus.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2345. *Descriptive literature.* Illus.

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7 days strength in 48 hours!

Tests made by the Bureau of Standards and The Solvay Process Company prove that Portland Cement, gauged by a solution of Solvay Calcium Chloride, attains greater strength in 48 hours than a corresponding mixture, with plain water, attains in 7 days!

The final set and strength of the concrete are in no way affected by the use of Solvay. In fact, tests indicate the final strength is increased by its use.

Solvay also waterproofs, strengthens and protects concrete against freezing temperatures.

SOLVAY Calcium Chloride

Solvay is shipped in 375-pound non-returnable metal drums or easy-to-handle 100-pound moisture-proof burlap paper-lined bags.

Seventy-five convenient distribution points in the United States give prompt service, with minimum transportation charges. It will pay you to use Solvay. Write for latest information at once.

Write for Booklet No. 2353

Don't forget that Solvay accelerates the set of concrete, and can be used often to advantage in the mix!

THE SOLVAY PROCESS COMPANY

Wing & Evans, Inc. Sales Department

40 Rector Street, New York

Boston Syracuse Chicago Indianapolis
Cleveland Cincinnati Pittsburgh Detroit

Are You Installing Casement Windows?

Then send this coupon now

THE CASEMENT HARDWARE CO. 250 Pelouze Bldg., Chicago
Please send me at once, without obligation, all new data and prices on the most practical and economical hardware for casement windows.

*Name*_____

*Address*_____

IMPORTANT late-season developments in Win-Dor Hardware for screened and unscreened casement windows call for your immediate inquiry in order to build a new and better satisfaction and economy into the buildings you are completing.

These improved fixtures are now available in quantity and can be shipped promptly. They include improved operators for opening and shutting *screened* casements without opening the screens and greatly improved fixed screen attachment devices at considerable saving.

All builders are urgently advised to send in the above coupon at once, as this better hardware which will be in their buildings next spring can just as well also be used in this Fall's buildings, if details are promptly secured. Send the coupon today.

THE CASEMENT HARDWARE CO.
CHICAGO

Casement Hardware Headquarters for Twenty Years

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Selected List of Manufacturers' Literature

(Continued from page 164)

Foley Saw Tool Co., 912-18 E. Lake St., Minneapolis, Minn.
3101. *Foley Automatic Saw Filer and One-Minute Rotary Saw Setting Tool.* Folder. 12 pp. Illus.

SAWS & SAW MACHINERY—See Woodworking Machinery

SAW RIGS—See Woodworking Machinery

SCAFFOLDING—See also Brackets

Gabriel Steel Co., Bellevue Ave., Detroit, Mich.
8173. *Gabriel Scaffolding.* Descriptive literature.

Steel Scaffolding Co., Evansville, Ind.
4651. *Catalog C.* Illus. 16 pp. Describes *Trouble-Saver* Steel Scaffolding, giving prices.
4652. *Adjustable Steel Scaffolding.* Descriptive matter.
4653. *Sectional Steel Scaffolding.* Folder. Illus.
4654. *Steel Trestles.* Folder. Illus. Descirptive.
4655. *Roofing Brackets.* Describes several types. Folder.
4656. *Sheathing Brackets.* Leaflet. Illus.

SCHOOLS

Chicago Tech College, 1038 Chicago Tech. Bldg., Chicago.
2711. *How To Read Blue Prints.* Booklet. Illus. Includes set of blue print plans.
2712. *Trial Lesson.* Includes blue prints and description of home-study course in architectural drafting.

Tyrean Institute, Palmer, Mass.
5841. *What About Your Future?* Booklet. Offers courses by mail in "Man-Power Engineering" and "Construction Management."
5842. *Your Chance to Make Good.* Booklet. Deals with three courses by mail. "Man-Power Engineering." "Advertising and Sales Management" and "Construction Management."

SCRAPERS

Lansing Co., Lansing, Mich.
5611. *Lansing Equipment for Contractors.* Catalog. Illus.

SCREEN MANUFACTURERS' MACHINERY

DeWalt Products Co., Leola, Lancaster, Pa.
2943. *DeWalt Machinery.* Folder. 4 pp. Illus. Takes up application of this machine for screen manufacture.

Markwell Mfg. Co., 176 Franklin St., New York.
3941. *Markwell Catalog.* 30 pp. Illus. Describes various appliances for the sash and screen maker.
3942. *Screens for Profit.* Folder. 4 pp. Illus.

SCREENS

American Brass Co., Waterbury, Conn.
2094. *Screens that Meet the Test.* Booklet. 16 pp. Illus. Describes development of screening from historical angle. Discusses use of *Antique* or *Golden Bronze* wire screens.

American Wire Fabrics Co., 208 S. La Salle St., Chicago.
2221. *Catalog of Screen Wire Cloth.* Illus. Deals with line of black enamel, galvanized, American bronze screen cloth.
2222. *Monel Metal Screen.* Folder. 8 pp. Illus
2223. *Wire Cloth Table.* Shows number sq. ft. per roll and sq. ft. in various widths and lengths.

Dennis & Co., W. J., 2110 W. Lake St., Chicago.
2012. *Dennis Screen Moulding.* Describes product for use in the making of screens.

Gilbert & Bennet Mfg. Co., 937-9 1st Nat'l Bank Bldg., Chicago.
3241. *Pearl Wire Cloth.* Contains description and samples.

Malia, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes rust-proof fly screens, porch enclosures and metal weather strips.

New Jersey Wire Cloth Co., Trenton, N. J.
4141. *A Matter of Health and Comfort.* Booklet. Illus. Discusses use of *Jersey* copper insect screen cloth. Includes samples.

Wickwire Spencer Steel Corp., Worcester, Mass.
5082. *Hardware Products.* Devotes section to screen cloth.

SEWAGE DISPOSAL—See Plumbing Equipment

SHADES AND SHADE ROLLERS

Dept. 9B, Edstrom, Wetmore & Henderson Corp., Warren, Pa.
2981. *Automatic Stop Shade Rollers.* Descriptive literature.

SHAFTS

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2346. *Flexible Shafts.* Bulletin. Illus.

SHEATHING—See Insulation, also Stucco Base

SHEATHING PAPER—See Building Paper

SHINGLES—See Roofing Materials

SHINGLE STAINS—See Paints, Stains, Varnishes.

SHOWERS—See also Plumbing, also Bathroom Fixtures.

Kenney-Cutting Prod. Corp., 507 5th Ave., New York.
3631 *Kenney Curtainless Shower.* Catalog A. Illus.

SKYLIGHTS

American 3-Way Luxifer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2203. *3-Way Ventilating Skylights.* 4 pp. Illus.
2204. *Steelead.* Describes puttyless, metal skylight construction.
2205. *3-Way Reinforced Concrete.* Discusses concrete and glass.

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Milwaukee Corrugating Co., Milwaukee, Wis.
4008. *Milcor Guide.* Illus. Explains details of *Puttyless Skylight.*

SLATE—See also Roofing Materials

Knickerbocker Slate Corporation, 153 E. 38th St., New York.
3701. *Slate.* Booklet. 16 pp. Illus. Deals with roofing and structural slate and blackboards.

Structural Slate Co., Pen Argyl, Pa.
4701. *Structural Service Data and Standards.*
4702. *Plumbing Catalog.* Deals with slate for the contractor.

Vendor Slate Co., Inc., Easton, Pa.
4861. *A Book for Architects.* Illus. Catalog 24 pp.
4862. *The Vendor Book or Roofing Slate for Architects.* Illus.

SOUND DEADENING MATERIAL—See Insulation

STAIR TREADS

Alberene Stone Co., 153 W. 23d St., New York.
2034. *Illustrated Literature* on stair treads of soapstone.

Norton Co., Worcester, Mass.
4211. *Norton Floors.* Booklet. 24 pp. Describes the several types of *Alundum* floor with reference to their applications.
4212. *Norton Floors.* Monthly House Organ. 4 pp. Illus.
4213. *Alundum Safety Tile.* Booklet. 38 pp. Presents one type.

Safety Stair Tread Co., Wooster, O.
4491. *Wooster Safe-Groove Stair Treads.* Catalog. Describes these treads and thresholds and security nosing made of white brass, brass and black steel.
4492. *The Wear on Stairs.* Catalog. Deals with methods of repairing worn stairs.
4493. *Stair Nosing, Wooster Security Nosing.* Catalog. Describes method of protecting edges of various flooring materials.

Universal Safety Stair Tread Co., 40 Court St., Boston.
5381. *Universal Safety Tread.* Booklet. Discusses installations on cement, metal or wood steps.

Wright Rubber Products Co., Racine, Wis.
5141. *Illustrated Folder.* Describes their rubber stair tread

STAIRWAYS, MOVABLE

Bessler Movable Stairway Co., Akron, O., or 103 Park Ave., New York.
2431. *Don't You Wish You Had More Room?* Bulletin. 8 pp. Illus. Explains use of disappearing stairway to attic.

Farley & Loetscher Mfg. Co., Dubuque, Ia.
5201. *Presto Sliding Stairs.* Descriptive literature. Includes prices.

STANDARD BUILDINGS—See Building Construction

STORE FRONTS

International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

Kawneer Co., 225 Front St., Niles, Mich.
3596. *Contractors' Design Book.* 128 pp. Illus. Presents selected list of store front designs.
3597. *Details Kawneer Solid Copper Store Front Construction* Catalog L, 1925 edition. 32 pp. Illus. Comprises a treatise on installation of Kawneer solid copper store front.

Zouri Drawn Metals Co., 1608 East End Ave., Chicago Heights Ill.
5151. *Getting People In.* Booklet. Illus. Gives plans and diagrams. Shows methods of arranging window display space.
5152. *Zouri Store Fronts.* Booklet. Illus. 1 pp.

STOVES AND RANGES—See Ranges, Heating Equipment

STUCCO—See also Cement

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2463. *Bishopric for All Time and Clime.* Booklet. Illus. 44 pp.
2461. *Bishopric Lunfast Finish.* Folder. Illus.
2467. *Old Colony.* Booklet. Describes this stucco.

Flint Rock Stucco Co., Arcade Bldg., Dayton, O.
5682. *Flint-Rock All-Mineral Stucco.* Catalog. Illus. Describes Oxy-Chloride Cement.
5683. *Architex Finish.* Catalog. Illus. Describes specially prepared colored stucco finish coat.

Lehigh Portland Cement Co., 30 E. 42nd St., New York.
3771. *Build the Castle of Your Dreams.* 32 pp.
3772. *Permanent Satisfaction in Your Building.* Illus. Book
3773. *The Lehigh Magazine.* New House Monthly.

Master Builders Co., Cleveland, O.
5321. *Booklet.* Describes *Mastertex,* their water-proofing paint for stucco, concrete, etc.

Muller, Franklyn R., Inc., Waukegan, Ill.
4053. *Asbestone.* 16 pp. Illus. Shows details and pictures of installation of *Asbestone* magnesite stucco.
4054. *Instructions for applying Asbestone stucco.* 8 pp. Illus.

Portland Cement Assn., 111 W. Washington St., Chicago.
4353. *Portland Cement Stucco.* Bulletin. Illus. Contains data on materials, proportion, etc., and discusses approved practices

Rocbond Co., Van Wert, O.
4461. *Better Homes.* Illus. Booklet. Describes properties of Rocbond Stucco for exterior surfaces.
4462. *Homey Homes.* Illus. Booklet. 20 pp. Shows houses of different kinds in which Rocbond Stucco has been used.

United States Gypsum Co., 205 W. Monroe St., Chicago.
48115. *Oriental Stucco Handbook, OS3.* Illus. in color and sepia
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.

STUCCO AND PLASTER BASES

Armstrong Cork & Insulation Co., 197 24th St., Pittsburgh.
5531. *Armstrong Corkboard.* Bulletins. Illus. Material includes structural details and method of laying as a plaster base.

Bishopric Mfg. Co., 103 Este Ave., Cincinnati, O.
2468. *Bishopric for All Time and Clime.* Catalog. Illus. 42 pp.

Bostwick Steel Lath Co., Niles, O.
2481. *Bostwick Economy.* Literature on Bostwick Metal Laths.

Celotex Company, 111 W. Washington St., Chicago.
2661. *Your Home.* Catalog. Gives information concerning *Celotex,* and deals with homes. Price, 50 cents.
2662. *Volume and Profit.* Booklet. Illus. Discusses *Celotex* insulating lumber and the lumber dealer.
2663. *The Hidden Comfort of Costly Homes.* Book.

Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

Flaxlinum Insulating Co., St. Paul, Minn.
3083. *Standard Specifications.* File 19G. Illus. Contains specifications for insulating with Flax-li-num Keyboard.

Flint Rock Stucco Co., Fourth St., Arcade Bldg., Dayton, O.
5681. *Keylock Base.* Literature. Describes waterproof, fibre base wood strip product for stucco and plaster.

General Fireproofing Co., Youngstown, O.
3229. *Herringbone Rigid Metal Lath.* Catalog. 48 pp. Illus
32211. *Trussit.* Booklet. 16 pp. Illus. Also folder. 16 pp. Illus. Describes reinforcement for partitions and curtain walls.
32212. *GF Diamond Rib Metal Lath.* Booklet. 8 pp. Illus.

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Build and Sell Homes In the Suburbs Now

—Don't Wait for Sewers

"Out to the suburbs," is now the nation-wide cry. The city dwellers want plenty of lawn, green grass, garden, orchard, sunshine, and blue sky. Folks are tired of living where they daily toil for their bread and butter.

People realize that is is not necessary to live in the city nowadays just for the sake of city comforts and conveniences. Modern homes with sanitary plumbing are now easily procured anywhere.

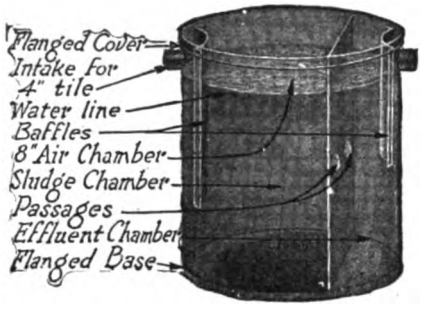
The problem of sewage disposal is perfectly solved with the safe—modern, economical



San Equip Septic Tanks

for all unsewered districts. Don't let lack of sewers worry *you.*

San Equip Septic Tanks follow U. S. Public Health Service design. Thousands are in use. No failures. Fully guaranteed. Easily installed.



Write for Our Free Plan Sheets

Sell San Equip Septics with the lot or use our free plan sheets to help you sell.

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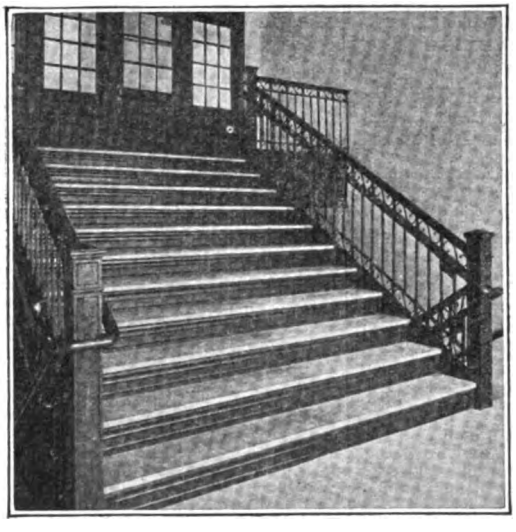
San Equip Septic Tanks are rust-proofed copperoid iron tanks—correct design—water tight—unbreakable—ready to connect.

Look one over at our risk. Prompt shipment from warehouse near you.

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For Stairways That Are SAFE



SOMERVILLE, N. J., HIGH SCHOOL—STAIRWAY OF ALBERENE STONE
J. N. PIERSON & SON, *Architects.*

Alberene Stone Stair Treads and Landings are not only hard and durable and lasting. They are permanently safe, as well.

They have a "toothed" surface that never wears slippery and that is non-slipping even when wet. And they are so fire-resistant that they will not crack or break down even when a stream of cold water is turned on the red-hot stone.

Their color is right too—a light gray. And they're non-absorbent and easily kept clean and sanitary.

Write for the Catalog and Detail Sheets of Alberene Stone for stair treads and other building purposes.

ALBERENE STONE COMPANY

153 WEST 23rd STREET, NEW YORK

Baltimore Boston Buffalo Chicago Cleveland Newark
Philadelphia Pittsburgh Richmond St. Louis

ALBERENE STONE

QUARRIED FOR OVER 40 YEARS

FOR SANITARY WORK, STAIR TREADS AND LANDINGS

STANDARD ALSO FOR LABORATORY EQUIPMENT ELECTRICAL CONSTRUCTION. LAUNDRY TUBS AND SINKS

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Selected List of Manufacturers' Literature

(Continued from page 166)

Milwaukee Corrugating Co., Milwaukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.
New Jersey Wire Cloth Co., Trenton, N. J.
4142. *Roebling Wire Lath.* Catalog. 30 pp. Illus.
NorthWestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4201. *NorthWestern.* General Catalog. 16 pp. Illus. Covers complete line of *NorthWestern* products including *Kno-Burn* metal lath, *Longspan Plasta-Saver, Nemco* channels.
4202. *Home Building.* Booklet. 32 pp. Illus.
4204. *Better Plastering.* Booklet. 12 pp. Illus.
Sykes Metal Lath Co., Niles, O.
4731. *Metal Lath for All Purposes.* Illus. Booklet. 20 pp. Contains information pertaining to their metal lath
4732. *Catalog and Handbook.* Illus. 32 pp. Deals with metal lath and steel building specialties, with specifications and details
Truscon Steel Co., Youngstown, O.
4799. *Hy-Rib and Metal Lath.* Catalog. Illus. 64 pp. Gives properties of laths, specifications, special uses and views.
United States Gypsum Co., 205 W. Monroe St., Chicago.
48116. *Gyp-Lap and Oriental Stucco Construction.* Bulletin OS1.
Wheeling Corrugating Co., Wheeling, W. Va.
5032. Descriptive literature.
Wickwire Spencer Steel Corp., Worcester, Mass.
5081. *Bulletin.* Illus. Includes specifications for using wire lath.

SURVEYORS' INSTRUMENTS—See Drafting and Surveying

TELEPHONES—See also Electrical Equipment
Western Electric Co., 100 E. 42d St., Mr. C. L. Funnell, New York City.
5001. *Inter-Phones Systems,* Descriptive literature.

THERMOSTATS—See Heating Equipment

TILES, FLOOR AND WALL
Lloyd Floor and Wall Tile Co., P. O. Box 5064K, Kansas City, Mo.
5881. *Tile Catalog.* Describes Ceramic Mosaic Floor Tiles, Glazed Wall Tiles and tile trimmings sold direct.

TILE MANUFACTURE
Dunn Mfg. Co., W. E., 700 W. 23rd St., Holland, Mich.
2971. *Duntile.* Illus. Describes concrete unit.
2972. *Basic Facts.* Illus. Deals with use of *Duntile* machinery.

TILE, STEEL
General Fireproofing Co., Youngstown, O.
32215. *GF Steel Tile.* Catalog. 32 pp. Illus.
Milwaukee Corrugating Co., Milwukee, Wisc.
4005. *Milcor Manual.* Catalog. 80 pp. Illus. Covers line.

TOILET INCINERATORS—See Incinerators

TOOLS
Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2344. *Hammers.* Bulletin. Illus.
Combination Blow Torch Mfg. Co., 2805 W. Van Buren St., Chicago.
5591. *Literature.* Describes combination blow torch soldering and branding iron.
Everhot Manufacturing Co., Maywood, Ill.
3033. *Everhot Soldering Irons.* Descriptive literature.
3034. *Everhot Hammers.* Descriptive literature.
3036. *Everhot Shovels.* Descriptive literature.
Koehring Co., 31st and Concordia Sts., Milwaukee, Wis.
3712. *Koehring Booklet.* Lists complete line of products.
Mack Tool Co., Inc., W. Commercial St., East Rochester, N. Y.
3881. *Catalog and Price List.* 20 pp. Illus. Contains complete line of *D. R. Burton* planes, gouges, hatchets, etc.
Nicholas Hardware Co., 121 Marion St., Oak Park, Chicago.
4171. *General Catalog.* No. 10. Illus. Presents complete line.
Progressive Mfg. Co., Torrington, Conn.
4361. *Forster Bits.* Booklet. Illus. Contains specifications.
Sargent & Co., New Haven, Conn.
4523. *Sargent Standard Steel Squares.* Booklet. 32 pp. Illus.
4524. *Sargent Planes.* Catalog. 64 pp. Illus.
Swan Co., James, Seymour, Conn.
4711. *Catalog.* 104 pp. Describes *Premium Mechanic's Tools.*
4712. *Booklet.* Illus. 32 pp. Lists and briefly describes tools.
Star Expansion Bolt Co., 147 Cedar St., New York.
5331. *Literature.* Describes *Dryvins,* their expansion shield.
White Co., L. & I. J., Buffalo, N. Y.
5061. *Catalog 19A.* Describes carpenters' tools.
5062. *Catalog 20B.* Describes coopers' tools.
5063. *Several Folders.* Deal with high speed knives.

TOOLS, AIR
Concrete Surfacing Machinery Co., 4669 Spring Grove Ave., Cincinnati, O.
2791. *Berg Electric Air Cushion Hammer.* 6 pp. Illus.

TOOLS, EDGE
Atkins & Co., E. C., Indianapolis, Ind.
2301. *Saws, Saw Tools and Machine Knives.* Catalog. 272 pp.
Everhot Manufacturing Co., Maywood, Ill.
3035. *Everhot Hatchets.* Descriptive literature.
Fox Supply Co., Brooklyn, Wis.
3164. *Scraping Knives.* Descriptive literature. Describes floor scraping knives, furnishing tools, and hand scrapers.
Mack Tool Co., Inc., W. Commercial St., East Rochester, N. Y.
3881. *Catalog and Price List.* 20 pp. Illus. Contains complete line of D. R. Barton planes, gouges, hatchets, etc.
Swan Co., James, Seymour, Conn.
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5062. *Catalog 20B.* Describes coopers' tools.
5063. *Several Folders.* Deal with high speed knives.

TOOLS, MARKING—See Marking Devices

TRAPS—Steam and Radiator
Johns-Manville, Inc., 292 Madison Ave., New York.
35516. *Steam Traps.* Catalog. 8 pp. Illus. Includes specifications.

TRANSITS—See Drafting and Surveying

TRESTLES—See Scaffolding

TRUCKS—MOTOR
Ford Motor Co., Detroit, Mich.
3121. *Power & Haulage.* Monthly Magazine. Contains information on *Fordson* tractor and *Ford* truck.
3122. *The Fordson.* Magazine.

TRUCKS, MOTOR—SUPPLIES
Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4287. *Ball & Ball Carburetor.* 8 pp. Illus. Shows details.
4288. *Lubricating Devices.* 2 folders. Describe priming caps.

TRUSSES—See Roof Trusses

VALVES—See also Plumbing Equipment
Crane Co., 836 S. Michigan Ave., Chicago.
2844. *Steam Pocket Catalog.* No. 50. 775 pp. Illus.

VAULT LIGHTS
American 3 Way-Luxfer Prism Co., 13th St. and 55th Ct., Cicero, Ill., or 358 Webster Ave., Long Island City, N. Y.
2207. *Daylight.* 16-pp. 3 Way-Luxifer armored sidewalk lights.
International Steel & Iron Co., Evansville, Ind.
3501. *International Service.* Catalog, supplement 22. 24 pp. Illus.

VENEER AND VENEERING
American Plywood Corp., New London, Wis.
2151. *Plywood Stock List.* Concerns panels for built-in work.
Wheeler, Osgood Co., Tacoma, Wash.
5023. *Leaflet.* Describes *Laminex* panels.
5021. *Laminex Book.* For architects and the building trade.

VENTILATION AND VENTILATORS
Globe Ventilator Co., Dept. L, Troy, N. Y.
3261. *Globe Ventilator* and *Globe Chimney Cap.* Provide specifications on contract work.
Milwaukee Corrugating Co., Milwaukee, Wis.
4009. *Nu-Air and Milwaukee Stationary Ventilators.* 16 pp. Illus.
Riesner, Benjamin, 260 E 78th St., New York.
5791. *Riesner Ventilation Brick.* Folder. Illus. Describes standard size iron brick for ventilating.
Washburne & Co., E. G., 207 Fulton St., New York.
4932. *Descriptive Price List of Rotary Exhaust Ventilators.*

WALLBOARD
Asbestos Shingle, Slate & Sheathing Co., Ambler, Pa.
2285. *Descriptive Matter.* Illus. Deals with *Linabestos.*
Beaver Products Co., Inc., Buffalo, N. Y.
2403. *Folder.* Illus. Describes uses and methods of handling *Beaver Board.*
United States Gypsum Co., 205 W. Monroe St., Chicago.
48111. *Gyplath.* Catalogue Ga.
48112. *Architects' Specifications for Gyplath.*
48117. *Sheetrock Catalog.* Bulletin WB61.
48118. *Sheetrock Tile Board.* Folder WB61.
Upson Co., Lockport, N. Y.
4851. *Walls & Ceilings of Enduring Charm.* Illus. Booklet. 16 pp.
4852. *The Snow White Lining.* Illustrated catalog. 16 pp. Describes Upson Fibre Tile used in bathrooms and kitchens.
4853. *4-Page Folder.* Contains description of the Upson Blue Book of working plans and sketches for interior finishing with Upson Board. Blue Book is distributed to lumber dealers for use by builders. Single blue prints, price 25 cents.
4854. *The Upsonizer.* Periodical. 24 pp. Illus.

WALL CONSTRUCTION—See Building Construction

WALL COVERING
Morene Products Co., Inc., 241 W. 28th St., New York.
5371. *Morene, the Wall Finish Distinctive; a Portland Cement Product—Atlas White.* Brochure. Illustrated. Shows examples of *Morene* used for ceiling and mural decorations.
Standard Textile Products Co., 320 Broadway, N. Y.
4631. *Book of Samples in Color.* Shows design and texture of Sanitas, their sanitary cloth wall coverings.

WASTE DESTROYERS—See Incinerators

WATER GAUGES—See Plumbing Equipment

WATER HEATING SYSTEMS
American Heating & Lighting Co., Morenci, Mich.
2132. *How to Install a Water Heater.* 8 pp. Illus. Deals with cold process gasoline gas heaters.
Crane Co., 836 S. Michigan Ave., Chicago.
2843. *Crane Water Heater.* Booklet. Illus.
Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
3581. *Catalog.* Covers plumbing, heating, and pneumatic waterworks fields.
Penberthy Injector Co., Holden Ave. and Grand Trunk Ry., Detroit, Mich.
4282. *Noiseless Water Heater.* 4 pp. Illus. Includes specifications.
Richardson & Boynton Co., 200 5th Ave., New York.
5223. *The Richardson Manual.* 419 pp. Illus. Gives data on "Richardson" Boiler for steam, hot water and vapor system, "Perfect" Warm-Air and Pipeless Furnaces, tank heaters and ranges.
5221. *Richardson Hot Water Heater. Describes Galvoxide Water Section* for use in connection with the *Richardson.*
5222. *Your Store.* This and another Booklet, for dealers.
Riverside Boiler Works, Inc., 491 Main Street, Cambridge, Mass.
5891. *Range Boilers.* Literature. Describes galvanized and copper types.
5892. *Storage Systems.* Literature. Describes automatic, gas-fired types.
Standard Gas Equipment Corp., 18-22 E. 41st St., New York.
4626. *Vulcan Gas Water Heater.* Booklet. Illus.

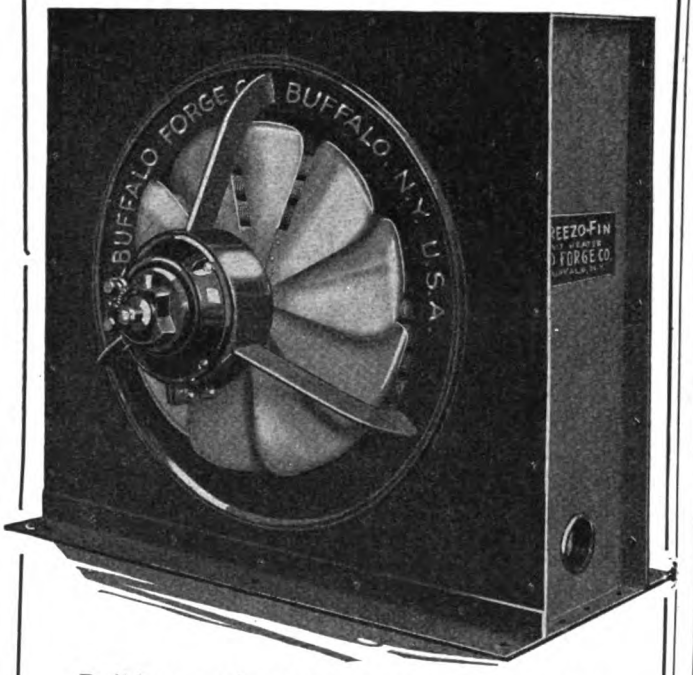
WATERPROOFING—See also Dampproofing
Beckman-Dawson Roofing Co., 111 W. Jackson Blvd., Chicago.
2413. *Dampproofing and Waterproofing Points and Insulating Paper.*

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"Buffalo" Breezo-Fin heaters for satisfaction—

Whether it's for temporary heat in a building under construction or for permanent use in a garage, warehouse, shop or mill, no other heater compares with this Buffalo "Breezo-Fin."

Light-weight—two men can handle it easily; sturdy enough to last a lifetime; heavy, copper-wound heating coils using either steam or hot water, with an enormous heating capacity, a quiet, reliable Buffalo "Breezo" Fan for distributing the heat, and a price that is VERY LOW!



Builders and contractors are using hundreds of heaters of this type with great success.

We also make other Heaters—

In addition to the above we make many other types of heating equipment for apartment houses, schools, office buildings, stores, garages and fine residences.

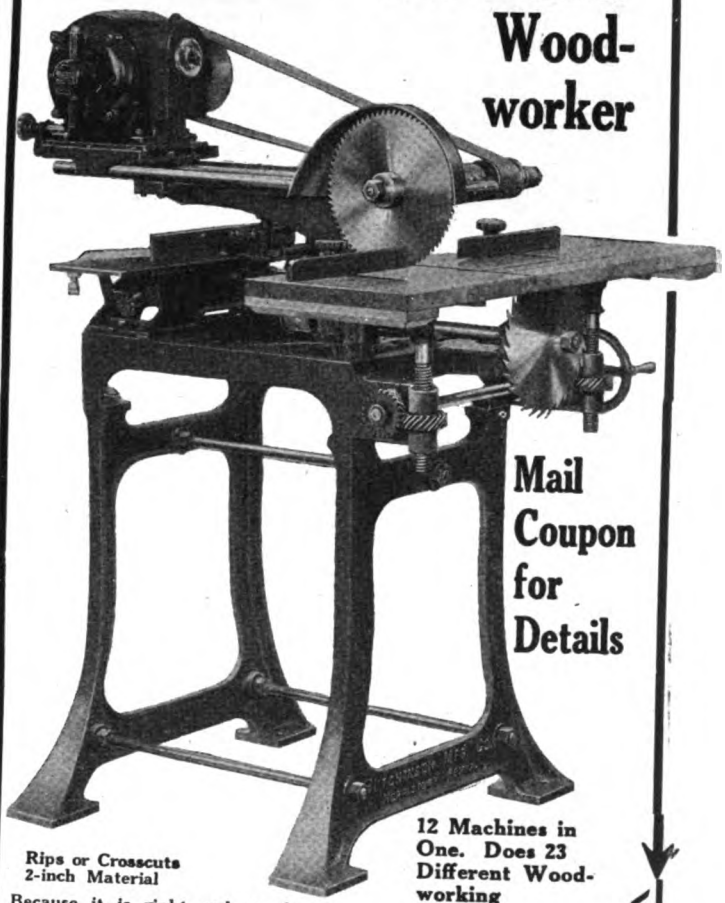
Builders, contractors and architects will find our catalogs interesting. Please tell us what type of building you are interested in.

Buffalo Forge Company
476 Broadway Buffalo, N. Y.

So Good That You May Take A Year to Pay!

And That Means That It Actually Costs You Nothing, For You Pay It By Using Only A Small Part Of What It Saves.

The Beaver Woodworker



Mail Coupon for Details

Rips or Crosscuts 2-inch Material

12 Machines in One. Does 23 Different Woodworking Operations.

Because it is right and stands up under all conditions, you may have a year's time to pay for the Beaver Woodworker. We sell the Beaver by letting you see for yourself what it will do in your shop or out on the job. And because we also manufacture the Speed Marvel, with capacity for cutting 8-inch, we are not tempted to "stretch" the capacity of the Beaver. It will pay you to get the facts by mailing the coupon.

Hutchinson Mfg. Co.
Norristown
Pa.

To HUTCHINSON MFG. CO., Norristown, Pa.
Please send full particulars on your woodworkers. I am particularly interested in the machine I have checked below.
☐ The Speed Marvel with 3 H. P. Motor.
☐ The Beaver with either ½ or 1 H.P. Motor.

Name.....
Business.....
P. O.....
State.....
St. or R. D.
(B.A.)

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Selected List of Manufacturers' Literature

(Continued from page 168)

Cabot, Samuel, Inc., 141 Milk St., Boston, Mass.
2594. *Cabot's Waterproofing Specialties.* Booklet. 14 pp. Illus. Covers damproofing, clear brick waterproofing, and clear cement waterproofing.

Crozier-Straub, Inc., 120 W. 42nd St., New York.
2891. *Straub Cinder Blocks.* Catalog. Includes tests and reports.

General Fireproofing Co., Youngstown, O.
32216. *The Waterproofing Handbook.* Catalog. 72 pp. Illus

Johns-Manville, Inc., 292 Madison Ave., New York.
35517. *Aquadom.* Folder. 4 pp. Illus. Explains use.

Master Builders Co., Cleveland, O.
5321. *Booklet.* Describes *Mastertex,* their waterproofing paint for stucco, concrete, etc.

Morene Products Co., Inc., 241 W. 28th St., New York.
5373. *Folder.* Describes *Kemisol,* waterproofing and preservative for stone, brick, concrete and cement surfaces above ground.

WATER STORAGE—See Water Heating Systems; also Water Systems

WATER SYSTEMS—See also Plumbing Equipment

Dayton Pump & Mfg. Co., Dayton, Ohio.
2902. *Catalog.* Illus. Deals with various types of water systems.

Duro Pump & Mfg. Co., 309 Monument Ave., Dayton, Ohio.
5671. *Duro-matic Way.* Information on the operation of Duro automatic water softener.

Fairbanks, Morse & Co., 909 S. Wabash Ave., Chicago.
3051. *F-M Home Water Plants.* Presents complete details.
3052. *Water Service Library.* Series of 8 booklets. Directs attention of builders and architects to home water systems.

Flint & Walling Mfg. Co., Kendallville, Ind.
091. *Running Water Under Pressure.* Catalog No. 115. 48 pp. Illus. Deals with water systems including pumps, tanks, etc.

Hardin-Lavin Co., 121-B1 W. Pershing Rd., Chicago.
291. *Handy Man Book.* 240 pp. Illus. Comprises encyclopedia of plumbing and heating equipment. 50 cents.

Karol & Sons Co., B., 808 S. Kedzie Ave., Chicago.
581. *Catalog.* Covers plumbing, heating, and pneumatic waterworks fields.

Myers Bro. Co., F. E., Ashland, O.
4071. *General Catalog.* No. 57. 414 pp. Illus. Presents complete line of Myers pumps, door hangers, store ladders, etc.

WEATHER STRIPS

Allmetal Weatherstrip Co., 229 West Illinois St., Chicago.
2041. *Circular.* 6 pp. Illus. Describes uses for hotels, residences.

Burrowes Weatherstrip Co., 1930 S. 52nd St., Chicago.
5491. *Do Your Windows Hold Out the Cold?* 4 pp. Illustrated.
5492. *Dealer Proposition.* Information on open territories.

Ceco Weatherstrip Co., 1926 So. 52nd St., Chicago.
2851. *Ceco Metal Weatherstrips.* Catalog. Illus. 16 pp. Describes these weatherstrips and their installation.

Dennis & Co., W. J., 210 W. Lake St., Chicago.
2911. *D. D. C. Spring Bronze Weatherstrip.* Includes sample, description and method of installation.

Diamond Metal Weatherstrip Co., 412 Spruce St., Columbus, O.
5621. *Diamond Weatherstrip.* Takes up details and installation.

Federal Metal Weather Strip Co., 1238-50 Fullerton Ave., Chicago, Ill.
3071. *Does it Pay?* Folder. 4 pp. Illus. Concerns the question of using weather strip.
3072. *Window and Door Equipment.* Folder. 4 pp. Illus.

Hoffbauer Co., Inc., 101 Park Ave., New York.
3411. *Metal Weather Strips.* Folder. 4 pp. Illus.

Malla, Thomas J., 226-32 Mentor St., Philadelphia, Pa.
5361. *Folder.* Describes metal weather strips, porch enclosures and rust-proof fly screens.

WEATHER VANES

Washburne & Co., E. G., 207 Fulton St., New York.
4931. *Copper Weather Vanes.* Illus. Catalog. 32 pp. Shows different designs of weather vanes and lightning rods.

WINDOWS, METAL

Bayley Co., Wm., Springfield, O.
2382. *Bayley-Springfield Steel Fire Windows.* Bulletin F21. 4 pp.
2383. *Bayley-Springfield Steel Office and Schoolhouse Windows.* Bulletin AA21. 4 pp. Illus. Details and description.
2385. *Bayley-Springfield Steel Windows for Basements.* 4 pp. Illus.
2386. *Bayley-Springfield Projected Ventilators, Steel Windows.*

Detroit Steel Products Co., 2252 E. Grand Blvd., Detroit, Mich.
2921. *Fenestra Steel Casement Windows.* 24 pp. Illus. New edition. Includes photographs and detail drawings.
2922. *Fenestra Basement Windows.* Booklet. 16 pp.
2923. *Fenestra Reversible Ventilator Windows.* 20 pp. Illus.
2924. *Fenestra Counter-Balanced Windows.* Catalog. 111 pp. Illus.
2925. *Fenestra Industrial Window Walls.* Catalog. 111 pp. Illus.
2926. *Fenestra Steel Windows for Schools.* Booklet. 32 pages. Illus.

Donley Bros. Co., 13920 Miles Ave., Cleveland, O.
2956. *Donley Basement Windows.* 16 pp. Illus. Gives details.

Hope & Sons, Ltd., Henry, 103 Park Ave., New York.
3431. *Hope's Casements.* Circular. Illus. Covers line of standard size and type steel casements.

Lupton's Sons Co., David, Philadelphia, Pa.
3845. *Industrial Windows.* Catalog No. 12-A. Illustrated.

Truscon Steel Co., Youngstown, O.
4795. *Truscon Steel Sash.* Illus. 80 pp. Handbook
4796. *Truscon Steel Sash.* Illus. 65 pp. Catalog. Contains designing data, tables and views of Stock Sash installations.

WINDOWS—WOOD

Andersen Lumber Co., Bayport, Minn.
2241. *Anderson Window Frames.* 24 pp. Illus. General catalag.
2242. *Better Frames for Your Money.* 6 pp. Illus

California White & Sugar Pine Mfrs. Assn., 457 Call Bldg., San Francisco, Cal.
2611. *Lumber Data Filing Folder.* Together with a series of information Sheets on California White and Sugar Pine.
2612. *Pine Homes.* Illus. Contains specific information as to grades of lumber recommended by this Association.

Long-Bell Lumber Co., R. A., Long Bldg., Kansas City, Mo.
3814. *Long-Bell Door & Windows.* Provide information through local lumber dealers.

Wheeler, Osgood Co., Tacoma, Wash.
5021. *Luminex Book for Architects and the Building Trade.* Booklet. Illus. 20 pp. Describes construction of *Luminex* and *Woco* doors and includes description of *Woco* window sash.

WIRE, IRON, BRASS AND BRONZE PRODUCTS—See also Ornamental Iron and Brass

New Jersey Wire Cloth Co., Trenton, N. J.
4143. *Wire Work.* Descriptive literature. Illus. Treats upon wire lath, screens and kindred wire products.

Northwestern Expanded Metal Co., 407 S. Dearborn St., Chicago.
4203. *Practical Machine Guards.* Catalog. 36 pp. Illus. Shows application of *Econo* mesh for this duty.

WIRE CLOTH—See Screens

WIRE GLASS—See Glass

WOODWORK—See Lumber and Woodwork

WOODWORKING MACHINERY

Aloe Co., A. S., Aloe Bldg., St. Louis, Mo.
2054. *Sawing with Elbow Grease or Gasoline?* Catalog. Illus.

American Saw Mill Machinery Co., 61 Main St., Hackettstown, N. J.
2171. *Catalog No.* 21. Describes circular saws of all sizes.
2172. *General Catalog No.* 22 *and Contractors' Bulletin No.* 77
2173. *General Catalog No.* 23. Illus. 208 pp.

Atkins & Co., E. C., Indianapolis, Ind.
2301. *Saws, Saw Tools and Machine Knives.* Catalog. 272 pp. Illus. Covers complete line of *Atkins* saws, saw filers, knives, etc.

Barker & Co., R. L., 642 W. Washington Blvd., Chicago.
2341. *Electric Portable Sander.* Bulletin BE. Illus.
2348. *Barker-State Saws.* Bulletin. Illustrated. Describes universal and fixed type of pedestal electric saws.

Barnes Co., W. F. & John, Rockford, Ill.
2351. *Barnes Catalog.* 38 pp. Illus. Covers line of saws, etc.
2352. *Barnes Motor Driven and Foot Power Woodworking Machines.* Booklet. 14 pp. Illus. Takes up various types.

Black Bros. Co., Inc., Mendato, Ill.
2472. *Black Veneer and Glue Room Equipment.* Catalog No. 11. 16 pp. Illus. Covers the line of clamps, presses, mortising machinery and sandpaperers.

Boice, W. B. & J. E., 1730 Norwood Ave., Toledo, Ohio.
5861. *Saw Your Way to Success.* Folder. Describes Boice-Crane bench machines.
5862. *Literature.* Describes Utility lathes, bench jointers, etc.

Buffalo Forge Co., 476 Broadway, Buffalo, N. Y.
2541. Catalog, 850-54. Describes the *Buffalo* Woodworker.

C. H. & E. Mfg. Co., 259 Mineral St., Milwaukee, Wis.
2581. *Home Builder's Saw Rig.* Bulletin. 4 pp. Illus. Furnishes description, specifications and prices.
2585. *Portable Saw Rigs.* Illus. Takes up six sizes with power built in and under table.

Colgan Machinery & Supply Co., 16 E. Broad St., Columbus, O.
2741. *Would You Bore Holes with a Hot Iron?* Folder. 4 pp. Illus. *Champion* hand and electric power mortisers.

Crescent Machine Co., 206 Main St., Leetonia, O.
2861. *Crescent Saw Tables.* Catalog. 20 pp. Illus.

Cresson-Morris Co., 18th & Allegheny Ave., Philadelphia.
5811. *20th Century Woodworker.* Circular. Illus.

DeWalt Products Co., Leola, Pa.
2941. *DeWalt Woodworker.* Folder. 4 pp. Illus. Furnishes information regarding *DeWalt* universal woodworker.

Gallmeyer & Livingston Co., Grand Rapids, Mich.
3181. *Union Woodworking Machines.* Booklet. 16 pp. Illus.
3182. *Woodworking Machinery.* Booklet. 14 pp. Illus.

Hutchinson Mfg. Co., Norristown, Pa.
3451. *Don't Let Dollars Slip Through Your Fingers.* Folder. 6 pp. Illus. Describes *Speed Marvel Worker.*
3452. *Bench Jointers.* Folder. 4 pp. Illus. Presents Speed Marvel 4" and 6" jointers.
3453. *Beaver.* Folder. 4 pp. Illus.

Huther Bros., Saw Mfg. Co., Rochester, N. Y.
3462. *Huther Catalog.* No. 38. Illus. Covers complete line.
3463. *Huther Pocket Size Catalog.* No. 43. 100 pp. Illus. Describes line of dado heads, milling saws, etc.

Kennedy, Ralph, 117 N. 7th St., Philadelphia, Pa.
3621. *The Kennedy Utility Saw.* Descriptive literature.

Kornau Machine Co., Gulow and Vendalia Sts., Cincinnati, O.
3731. *Upright Hollow Chisel Mortiser.* Data and description.

Markwell Mfg. Co., 176 Franklin St., New York.
3941. *Markwell Catalog.* 33 pp. Illus. Describes various appliances for the sash and screen maker.

Master Woodworker Mfg. Co., 614 Brush St., Detroit, Mich.
3961. *Master Woodworker.* 18 pp. Describes model No. 7.

Parks Ball Bearing Machine Co., 1540-46 Knowlton St., Cincinnati, O.
4261. *Parks Woodworking Machines.* Catalog E. 42 pp. Illus.
4262. *Cabinet Shop Special.* Bulletin. No. 7. 6 pp. Illus.
4263. *Contractors' Special Swing Cut-off Saw.* Bulletin. 4 pp.
4264. *Planing Mill Special.* Bulletin. C-85. 6 pp. Illus.

Sheldon Mfg. Co., Inc., Box 25, Nehawka, Neb.
4563. *Four Leaflets and Folders.* Illus. Describe their *Model A* portable gas engine, saw rig and *Model B* portable electric.

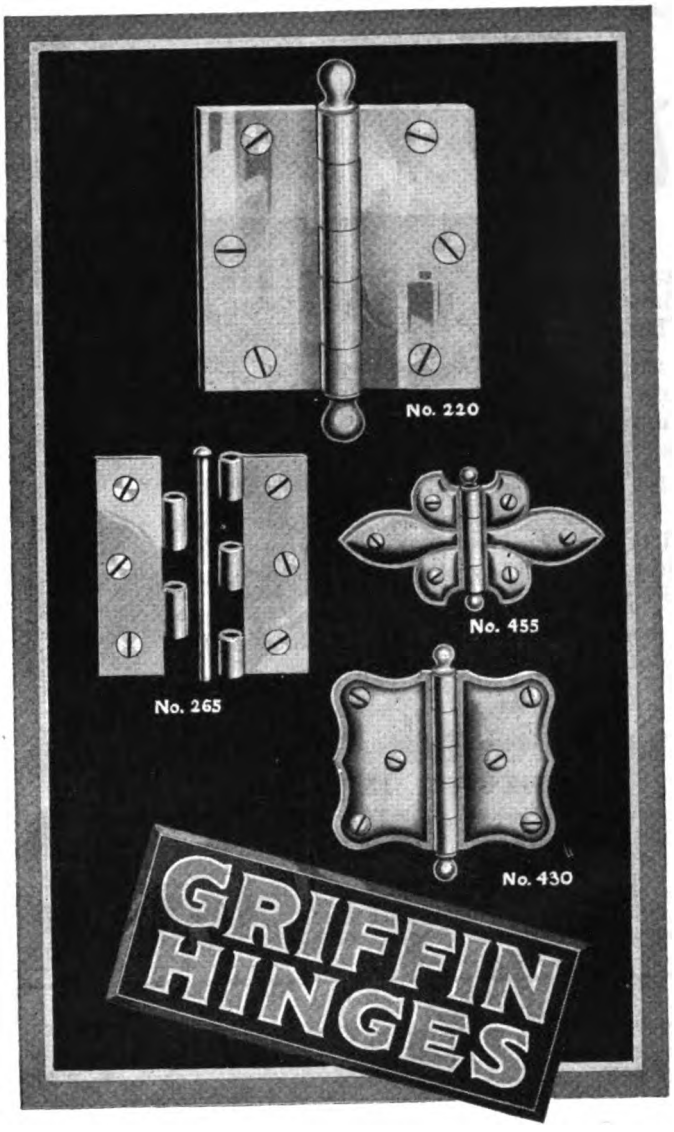
Sidney Machine Tool Co., Sidney, O.
4581. *Famous Woodworking Machinery.* Catalog, pocket size.
4582. *Booklet.* 12 pp. Illus. Gives additional information.

Tannewitz Works, Grand Rapids, Mich.
4741. *Variety Saw Benches.* Bulletin. Describes a machine for all classes of work.
4742. *Sawing Machinery.* Complete catalog. Illus. Comprises bulletins of many types of machines, with specifications.

Wallace & Co., J. D., 134-158 S. California Ave., Chicago.
4891. *Wallace Bench Machines.* Illus. Loose Leaf Catalog. 22 p
4892. *Wallace Machines for Working Wood* Illus. Catalog.
4893. *The Woodworking Pictorial.* A Bulletin of suggestions.

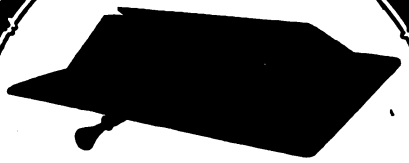
ZINC—See Leaders, Flashings and Gutters; also Roofing Materials

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There is a GRIFFIN Hinge made for particular *use* with every door that swings in buildings large *or* small

GRIFFIN
Manufacturing Co.
ERIE, PENNSYLVANIA
Branch Offices
45 WARREN ST. NEW YORK
74 W. LAKE ST. CHICAGO
28 BINFORD ST. BOSTON





Do Your Fireplaces Smoke or Soot Smudge?

ARE the fireplaces you build guilty of smoking, soot smudging or poor regulation? If so, we would be glad to have you write and tell us about them. Perhaps we can suggest a way to remedy the trouble. In any event we can tell you how to prevent all future trouble.

There are just two things that make or break a fireplace; one is the construction and the other is the fireplace equipment. In the Donley Book of Fireplaces you will find complete construction plans and photographs. It also describes Donley Fireplace Equipment including the Donley Damper with its smooth metal throat that eliminates smoke and soot fireplace evils.

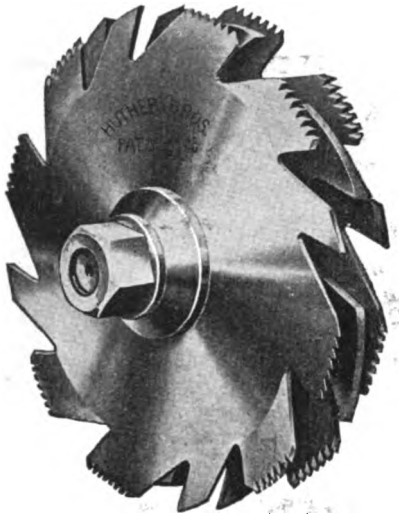
A copy of the Donley Book of Fireplaces is sent at your request. Donley Catalog also included if desired.

The Donley Brothers Co.
13920 Miles Ave. Cleveland, Ohio

DONLEY DEVICES
Complete the Home

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Speed up!



You can do it, even on the most complex grooving and cutting if you use the Huther Dado Head!

With this tool the most complicated cutting and grooving are made easy. Perfect work is assured, and speed throughout the whole process increased.

Made by the inventors and original patantees of the Dado Head cutter, and backed by more than fifty years' experience in saw manufacture, this tool is an investment that pays profits from the very start.

Let us send you illustrated catalog showing the complete line of Huther Saws.

Huther Bros. Saw Mfg. Co.
ROCHESTER, N. Y.
Makers of Better Saws for More Than Fifty Years

CARPENTERS, BUILDERS and WEATHER STRIP AGENTS

Today, while you think about it, write for complete details of our attractive proposition. Don't pass this up. Hook up with a quality product and permanent business.

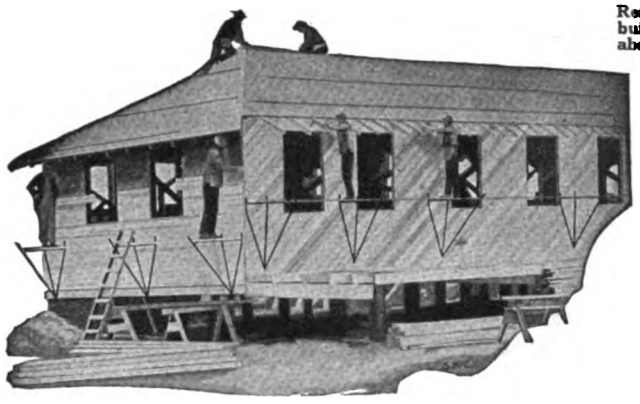
BURROWES
METAL
WEATHER STRIPS

The WORLD'S BEST WEATHER STRIP

BURROWES WEATHER STRIP CO.
2163 N. CALIFORNIA AVE., CHICAGO

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"Reliable Brackets practically pay for themselves on the initial job"



Read what Mr. Ladd, a contractor and builder of Put-In-Bay, Ohio, has to say about his Reliable Brackets.

Elite Mfg. Co., Put-In-Bay, Ohio
Ashland, Ohio.

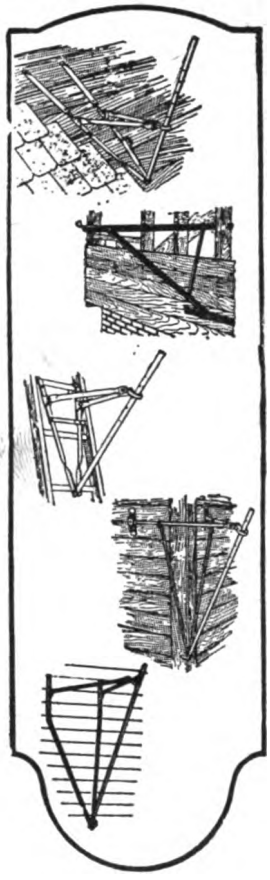
Gentlemen:

The twelve "Reliable Brackets" I purchased from you last fall, have more than met with my expectations. They practically paid for themselves on the initial job by saving the labor and material for constructing wood scaffolding. They can be applied and removed in about 1/10 of the time that an ordinary scaffold can be assembled.

I would never be without them, and would not take ten times their cost if I could not duplicate them. It is quite difficult to adequately express in words their true value to any contractor or builder.

Thank you for your courtesy and promptness in filling my order. If I am in need of more brackets in the future, I shall wire my order at once. Very truly yours,

(Signed) W. S. Ladd
Contractor and Builder

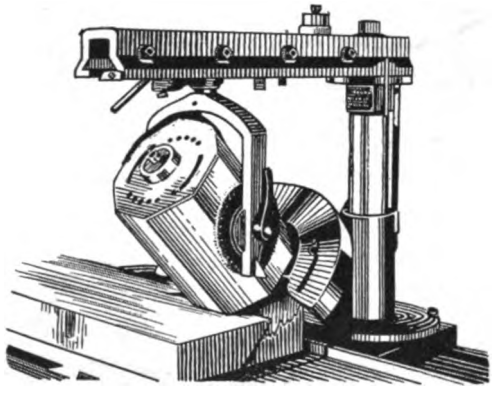


Who wouldn't be strong for a bracket which is perfectly safe, easily and quickly put up and saves the price of lumber and does not require plugging up holes after it is removed? You can increase your profits by picking out a selection of the brackets illustrated—Roofing Bracket, Hook Type Bracket, Ladder Bracket, Corner Bracket and Standard Scaffold Bracket.

Send for our illustrated folder describing these brackets or order now. We ship C. O. D. so you can see the brackets before you pay a cent.

ELITE MANUFACTURING COMPANY, Dept. BA-12, ASHLAND, OHIO
New Jersey Distributor: Newark Ladder & Bracket Co., 317 Springfield Ave., Newark, N. J.

Reliable Scaffold Brackets
No holes to plug after they are removed



Are You Wide Awake?

If You Are You Own A

DE WALT WONDER-WORKER

Consider This!

In cutting the frame for a building, if you could, would you hire three men who could do the work of six? YOU BET YOU WOULD!

Would you not consider a man dead from the neck up who wouldn't?

Then, why not buy a De Walt WONDER-WORKER that will do the work of SIX men and do it better? It will pay for itself on your first $5,000 of FRAME construction and hasten the job's completion by days. AFTER THAT, ALL ITS EARNINGS ARE VELVET.

In considering the purchase of a machine to aid in your building operations is it a question of how much the machine costs, or is it how much it will save you both in cash and in time?

What percent do you figure on for Construction Profit? Why not own a De Walt WONDER-WORKER and add 8 percent to that profit? It will do it.

DE WALT PRODUCTS COMPANY

402 New Holland Avenue **Leola, Pennsylvania**

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DEPENDABLE WATER SYSTEMS



The New DAYTON CUB $85

The DAYTON "Cub" is just the size for average inside users. Supplies water under pressure at a capacity of 200 gallons per hour. Quiet in operation, economical, easy to operate, easily installed and requires no servicing—an outstanding value at $85.00. Liberal trade discount.

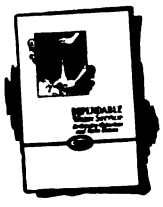
Dayton Wins by Comparison

Compare a DAYTON water system with any other for dependability and performance—you will see why so many Architects and Builders recommend and specify it.

DAYTON water systems are manufactured and backed by the true pioneers in the water system field. They have been developed and improved during the past sixteen years—the result today is the finest private water system any person could wish for—one that is noted for its constant dependability, long life, freedom from repairs and economical operation.

Whatever the requirement—for deep or shallow wells or cisterns—there is a DAYTON to fit the job. Pumping capacities ranging from 160 to 3,000 gallons per hour. For homes, clubs, schools—for every building where running water is needed—DAYTON fills the need.

Our free booklet, "Dependable Water Service for Country, Suburban and Farm Houses," is ready for your reference file. Send for it today



The Dayton Pump & Mfg. Co.
DAYTON, OHIO
U. S. A.

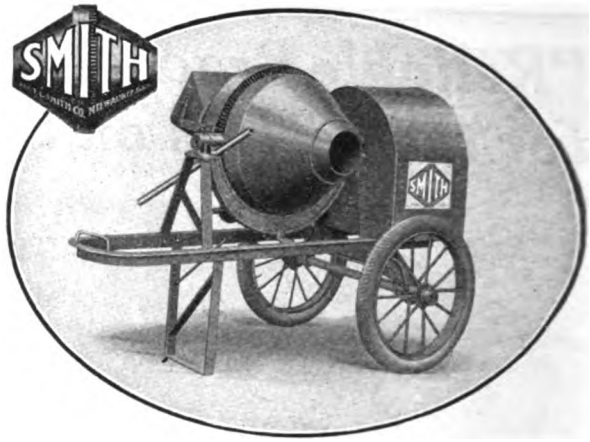
B.A.12

Please send, at once, my copy of "Dependable Water Service."

Name .....
Address .....
City .....

Tear off and pin to your letter head

"Dayton" Pumps
Make the water do the running



AGAIN—

Sets a New Standard

With the offering of the new small tilting mixer early this year—the Smith 2½-S—precedents were overturned. A new value in mixers—a faster, better concrete mixing machine bearing the Smith name came out, which carried an entirely new note in mixer practice and performance.



Light weight (Only 730 lbs.) and trailer truck allows easy shifting and moving from job to job.

At this time, even though factory production has been stepped up over the original shop quotas, the demand has exceeded output. And the demand will increase because this Smith achievement is an advance in the art—a quality mixing machine ideal for hundreds of uses—easily handled, readily operated and at a low price.



Easy "one-hand" tilt from either side of mixer

Write for Catalogue Today

The T. L. SMITH COMPANY
1028 32nd Street Milwaukee, Wisconsin

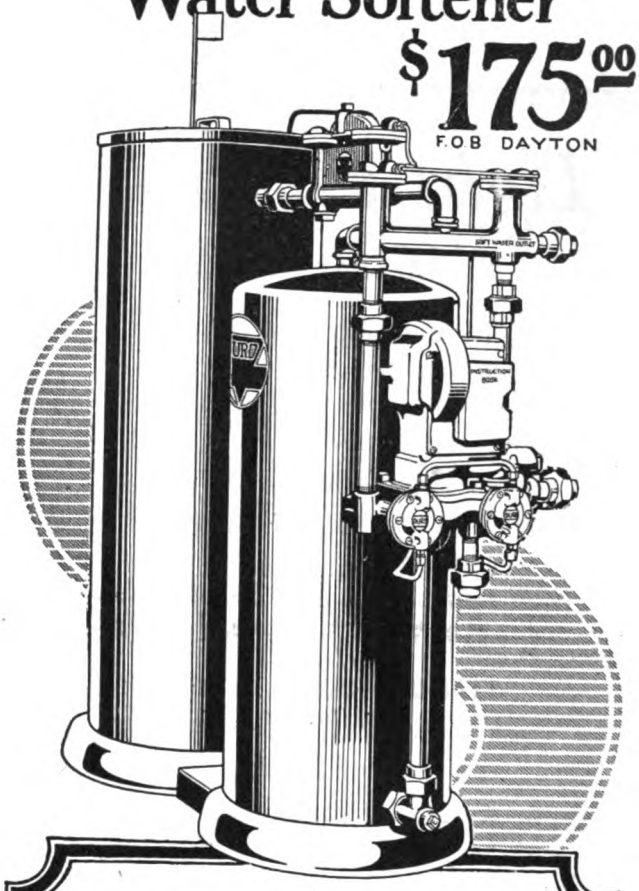
Sales Offices and Service Stations in all Principal Cities.

SMITH MIXERS

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DURO Automatic Water Softener

$175.00
F.O.B DAYTON



This improved Softener obsoletes all other types. Sales prove that the public favors the Duro Automatic Water Softener in preference to any hand-operated water softener on the market.

Duro makes all kinds—hand-operated—single control—automatic softeners—yet, it is our sincere and impartial recommendation that you install Duro Automatic Water Softeners in place of the hand-operated type.

It is *completely* automatic. It is reconditioned automatically. It supplies an unlimited quantity of soft water at all times. And it costs little if any more than the other kind.

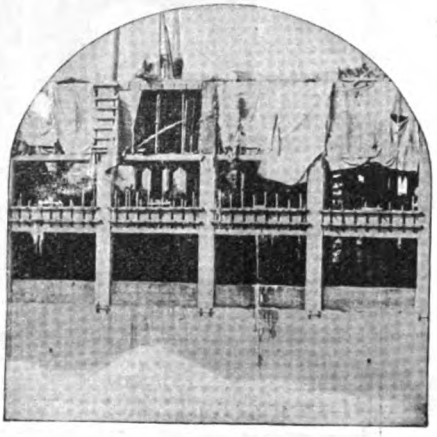
Write for complete details.

ADVISORY SERVICE — DURO — GUARANTEED — MADE BY THE DURO PUMP AND MANUFACTURING CO.

The Duro Pump & Mfg. Co.
1912 Monument Ave, ~ Dayton, Ohio
Largest Manufacturers of Water Systems and Water Softeners

Duro Guarantees Satisfactory Water Service

Save by building *this* winter!



Use "R. I. W." Quick-Done

Accelerator and Anti-Freeze for Concrete and Cement Mortar

INDIRECT savings overbalance costs of winter construction. You save on labor bonuses and turnover, save on transportation rates, secure discounts on materials, and spread your overhead expense. Owners save interest and taxes, on idle investments, and secure earlier returns from their buildings.

"R. I. W." Quick-Done simplifies winter building by neutralizing the effects of freezing weather. Its use makes winter building profitable.



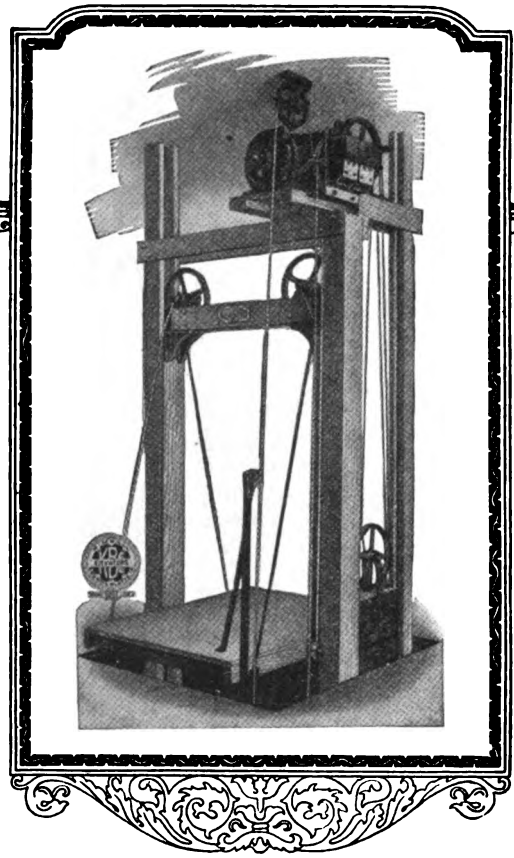
QUICK-DONE

The primary purpose of this material is to prevent the freezing of the gauging water used in cement mortar and concrete construction; also to hasten the initial and final set, and produce hydration at low temperature. By its use a Portland cement mixture having a normal initial set of about 6 to 7 hours, and a final set of about 10 or 11 hours, will be accelerated to an initial set of about 2½ hours, and a final set of about 4½ hours.

Write Dept. N for full information.

TOCH BROTHERS
ESTABLISHED 1848 INCORPORATED 1922
Technical and Scientific Paint and Varnish Makers
110 EAST 42nd STREET, NEW YORK
Works: LONG ISLAND CITY, N. Y.

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"There is a Kimball built to suit your requirements"

Light Electric Elevators

These machines come in three speeds and capacities. They give the service of the more expensive elevators and are easily and quickly installed wherever there is electricity.

Write for detailed information on KIMBALL'S LIGHT ELECTRIC

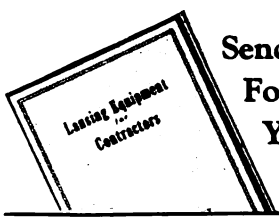
KIMBALL BROS. CO.
1106-22 Ninth Street
Council Bluffs, Ia.

New Improved
Loading Brake and Clutch

Only one lever—easy to operate—amply oversized—gives perfect control of loaded skip.

Consists of integral internal expanding clutch and external contracting automobile type brake alternately working on same drum, and controlled automatically by one lever with safety release when loading skip is at 50 degree discharge angle.

Combining this with a rugged frame, stiff axle construction, perfect mixing performance, compactness, parts amply oversized without excess weight, makes the Lansing 7-S Mixer economical to operate.

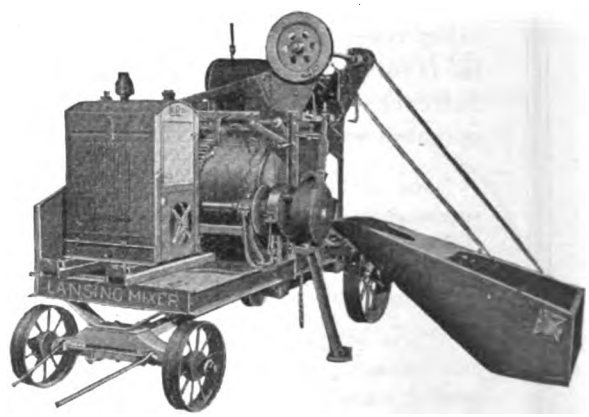


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Lansing-Company, Lansing, Michigan

BRANCHES
Chicago, Boston, New York, Minneapolis, San Francisco, Kansas City, Philadelphia

LANSING
EQUIPMENT FOR CONTRACTORS



LANSING
Improved 7-S Mixer

With power side loader—Water tank—Two-cylinder, radiator cooled LeRoy gasoline engine

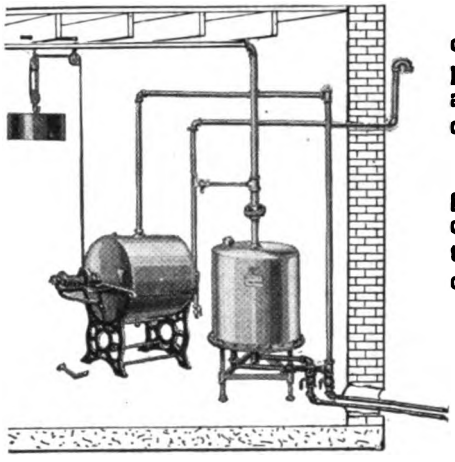
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SUBURBAN
COMPLETE
GAS
SERVICE

SAFE—CLEAN
ECONOMICAL

Suburban Gas Means More Comfort

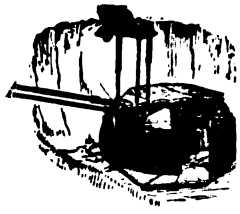
You can put all the comforts which gas furnishes for cooking, heating and lighting in every suburban home, school, or hospital you build, where city or natural gas is not available, by the installation of a Detroit Combination Gas Machine.



Here is shown the Weight-Drive Detroit Combination Gas Machine. Where electricity is available, electrically operated machines can be supplied.

This complete individual gas plant is compact, economical, odorless and dependable. It is built on tested engineering principles which guarantee absolute safety and satisfaction, and produces over 800 heat units per cubic foot, of the finest quality gas obtainable.

The installation cost is low; the operating expense is no greater than the cheapest City gas; there is no maintenance cost. Operation is automatic, requiring little or no attention; the regulator is permanently set, assuring the constant production of gas of uniform quality.



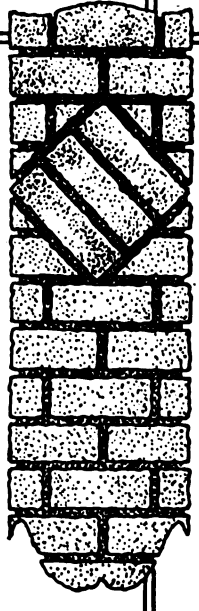
In a class by itself for efficiency, you can recommend the Detroit Combination Gas Machine to your customers with the knowledge that for over 50 years it has been made and sold on the merit of performance. Suburban Gas means more comfort, more efficiency, greater fuel economy, less manual labor.

Write for illustrated folder which tells the complete story.

DETROIT SUBURBAN GAS PLANT COMPANY

2153 EAST MILWAUKEE AVENUE, DETROIT, MICHIGAN

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LEADERSHIP cannot be bought. In most lines, and especially building materials, it is accorded a product only after a long record of satisfaction.

Clinton Mortar Colors have achieved their present recognition and acceptance by architects and contractors by virtue of their absolutely uniform coloring, strength and permanency.

Nearly forty years of Clinton dependability are reason enough to discerning buyers of building materials for specifying and insisting on Clinton Mortar Colors. For interesting literature, address: The Clinton Metallic Paint Company, 31 Clinton Road, Clinton, N. Y And remember—

One-fifth of the brickwork is mortar!

Clinton Mortar Colors

Nature's permanent colors—Made since 1887

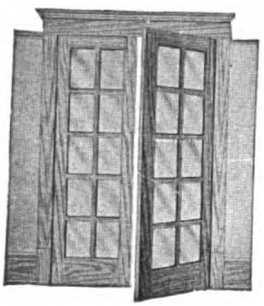
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We can supply everything in

MILLWORK

promptly and at attractive prices



Carpenters and contractors will find that our catalog is a reliable guide for the builder, and that it contains much valuable information and many helpful suggestions. In it are found low prices, descriptions and illustrations of windows and sash of all kinds, including storm and porch sash, doors, frames, screens, mouldings, porchwork, stairwork, hardwood flooring, cabinet work, etc., etc.

Send us your material bills for a FREE ESTIMATE



When you need millwork send in a complete list showing just what is wanted. Then we shall be able to prepare an itemized estimate quoting the exact price of the material and just what the freight charges will amount to. This will place you under no obligation whatever.

QUALITY—SERVICE—PRICE

Our material is of the highest quality and is fully guaranteed. We can give you excellent service and we are sure our prices will be found attractive.



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Let us send you one of our catalogs. Just fill in the coupon below and send it to us. A book will be sent to you promptly.

Chicago Millwork Supply Co.

1400 West 37th Street **Chicago**

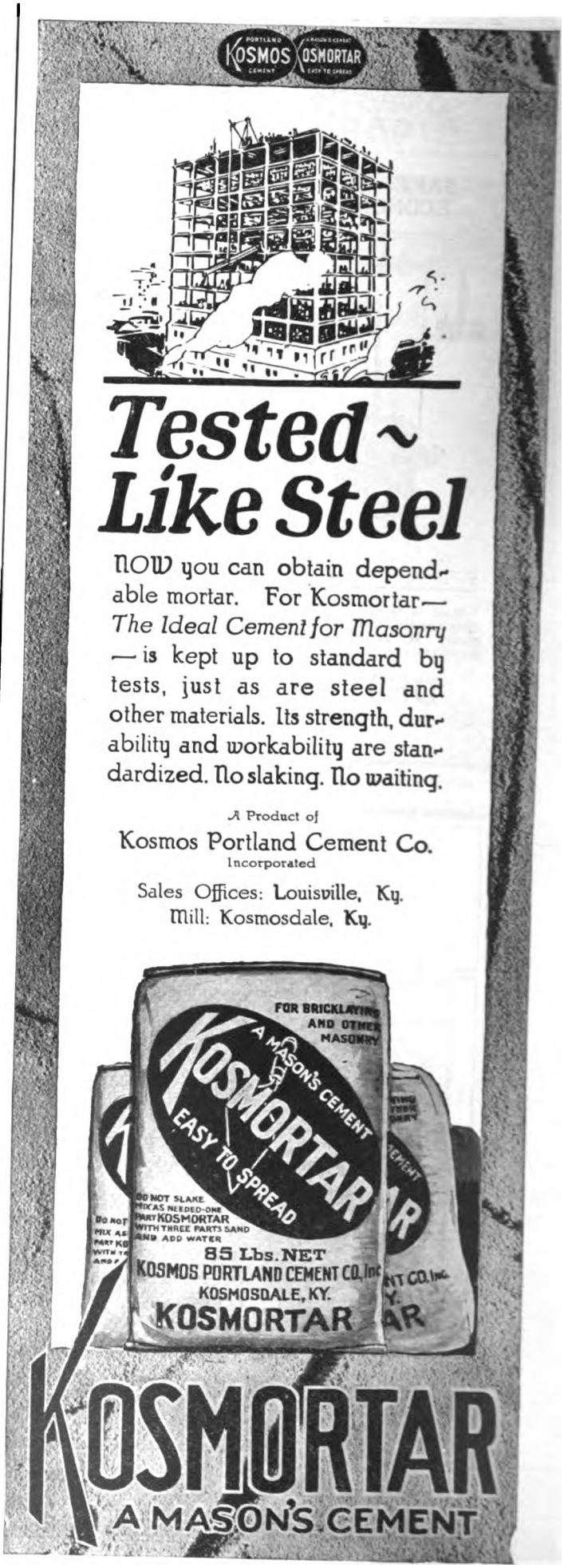
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In Any Depth of Grounds

IT is one thing to get a good plastering job regardless of expense. It is another thing to combine highest quality with definite economy.

Money will not buy a better plastering job than those done every day over Bostwick "Truss-Loop" Metal Lath.

But what the practical builder likes about Bostwick is the dandy job he gets on less than standard depth of grounds.

Bostwick Economy
Means Quality Too

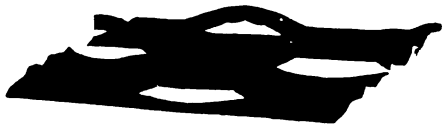
For this type of work, many experienced builders apply Bostwick "Truss-Loop" Lath with the loops turned inward. This gives a smooth, firm, backing for the plasterer to work over and a sufficient—but not wasteful—plaster key.

Bostwick "Truss-Loop" metal lath has been the favorite lath in wood construction for 35 years. There is nothing theoretical in its claims of permanence. Scores of fine, old buildings prove it by their unblemished walls and ceilings.

Saving supports, saving overlap, saving time in application, saving plaster and plastering time, Bostwick "Truss-Loop" Metal Lath is the tried friend of the successful builder.

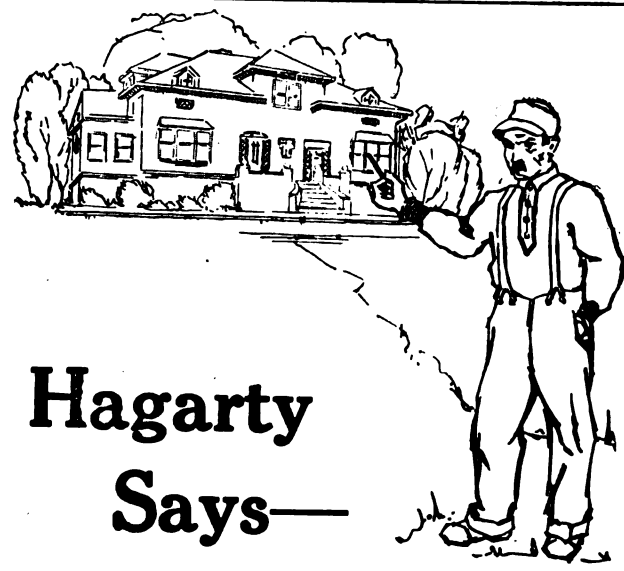
Send for Bostwick Economy, a catalog of metal lath construction

THE BOSTWICK STEEL LATH CO.
NILES, OHIO



Member of National Council for Better Plastering

Bostwick
TRUSS-LOOP
METAL LATH



Hagarty Says—

"I stuccoed that house ten years ago—ain't a crack in the walls.

"They can't tell me 'Stucco's just stucco.' I've tried 'em all, but ol' ROCBOND cert'nly stays put."

ROCBOND
Exterior Stucco
A Good Half Inch

FOUR PLANTS
Write the one nearest you

The Rocbond Company

Van Wert, Ohio — Harrisburg, Pa.
Cedar Rapids, Iowa — New York, N. Y.

The Rocbond Co. B.A.

Please send me "Homey Homes" book describing Rocbond Stucco. No obligation is assumed.

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Store Fronts
Public Garages
Steel Trusses
Steel Columns
Steel Girders
Steel Windows
Skylights
Roof Ventilators
Elevators
Coal Chutes
Sidewalk Lights
Steel Ceilings

Co-operation *for* Contractors

We maintain a complete service to help contractors out of their difficulties.

If you wish to submit complete plans and designs for a contemplated building, requiring steel work, write us. Our design department will furnish you complete plans and elevations, with estimates on the steel work.

Our estimates will include the cost of all material except that which you can buy from your local dealer. You can add these costs to our estimates, and have a complete estimated cost with little trouble.

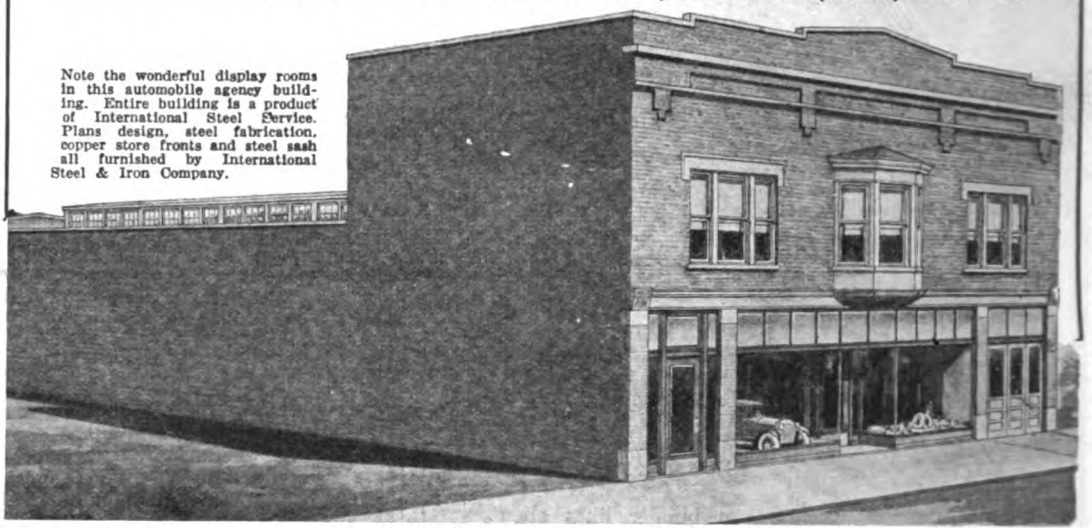
Our designs, plans, estimating and steel service, enable you to pry loose those inactive jobs by taking away the biggest reason for delay.

Our designs are practical, and require the least expenditure for labor and materials. And our immense, modern shop and enormous stock of structural steel, steel sash, store fronts, etc., guarantees you quick service, and accurate fabricating.

Write for our big folder, showing over 50 modern *garage illustrations.*

International Service

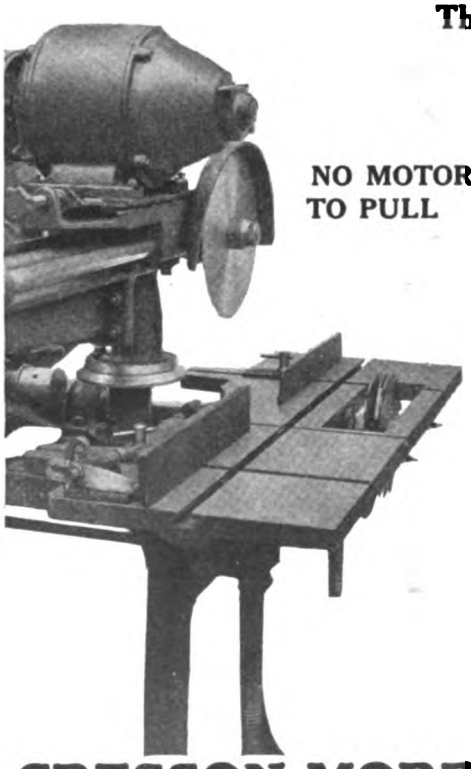
INTERNATIONAL STEEL & IRON CO., Evansville, Ind., U. S. A.



Note the wonderful display rooms in this automobile agency building. Entire building is a product of International Steel Service. Plans design, steel fabrication, copper store fronts and steel sash all furnished by International Steel & Iron Company.

20th CENTURY WOODWORKER

The Overhead Saw With 17-Inch Crosscut and Tilting Head That Makes Possible a Double-Angle Cut.



NO MOTOR TO PULL

Look at this

Cast Iron Table
and
Wide Knockout Block

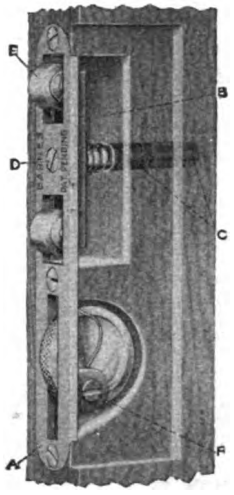
Cuts Wood and Costs

Write for illustrated circular

CRESSON-MORRIS COMPANY 18TH & ALLEGHENY AVE., PHILADELPHIA, PA.

U. S. and Foreign Patents Pending. Licensed under U. S. Patent No. 1462831, Feb. 5, 1924

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Here it is!

The Barnes Sash Holder and Lock, with a section of sash, showing how the device is mortised into *one side* of sash. One only is required for each sash, or two to a window. Compare the cost, labor and time of installing with old-fashioned cords and weights!

Attention! — Builders — Material Dealers!

New — Better — Cheaper — Profitable

BARNES SASH HOLDER and LOCK

At last a common-sense, simple, practical, low-cost device which eliminates sash cords and weights. And with the passing of the old style method of hanging sash goes the expense, the labor, the delay, that meant a big item in construction.

But this combination sash holder and window lock does more than that . . . it also meets the waiting demand for a simple yet positive window lock for first floor and other windows accessible from the outside. Windows may be opened top and bottom for ventilation —yet they are held with absolute security at any point desired.

Save money—make money—get a business-bringing reputation by introducing this sensational improvement in window hardware in *your* community.

Plenty of desirable territory also open for sales representatives.

☞ ***Send Now for a Sample Set***

You must see this device to fully appreciate the tremendous advance in window hanging which it brings about. Send your name and address and enclose one dollar for sample set consisting of a Barnes Sash Holder and a Barnes Combination Sash Holder and Lock. Or write for complete information without obligation.

BARNES LOCK & SASH HOLDER CO., 1830 Tribune Tower, Chicago, Ill.

FOLEY AUTOMATIC SAW FILER

With a Foley Automatic Saw Filer you can turn out as many saws as 6 men filing by hand—and every job will be absolutely accurate.

This handy machine *automatically* sharpens the average saw in 5 minutes, saving 25 to 30 minutes over hand labor. You simply clamp the saw in the machine, turn the crank or let the motor do it—as fast or slow as you want. The Foley Automatic Saw Filer sharpens every tooth perfectly; the teeth will not vary 1/1000th of an inch.

The Foley Saw Filer also retooths saws that have been abused by poor filing, making them better than new.

Handles Many Saws

Hand, band, back, meat, circular and other saws are all the same to the Foley. Saves time, money, saws and eyes. Driven by hand or motor.

What Foley Users Write

From CHAS. FULLER, Lima, O.: "I have developed a wonderful and profitable business ith Foley Saw Tools."

"Foley Saw Tools have paid for themselves many times over."
I. N. FAULKNER,
Professional Filer,
Los Angeles, Cal.

"Foley Filer and Setter are in constant use. We would not care to continue business without them."
Essanepn Repair Shop 2579 3rd Ave., Bronx, N. Y.

"I now can keep my saws in A-1 condition with but a few minutes' work now and then."
Russell Albert Cook,
Cresskill, N. J.

finest invention I and others have ever seen."

John F. Artz, Pottsville, Pa., writes: "Have filed considerable over 1000 saws with the Foley F-3 Filer and it is good for many thousand more. Am now in the market for your F-4 Motor Drive Outfit to take care of my fast growing business."

DOES THE WORK OF FIVE MEN

Anyone Can Operate

No experience necessary—if you know anything about saws you can be an expert filer with a Foley outfit. As few as three saws to care for will pay for a Foley Automatic Saw Filer in a very short time.

Model F-3
Hand Driven

Foley Hand Drive Outfit; ideal for contractors, builders, carpenters and professional filers. Handles, hand, band, back and meat saws.



Send for Free Information

Get the facts about this time and money-saving Foley Machine. Let us send you copies of letters from users of Foley Tools. Just say that you are interested—on a postcard or in a letter.

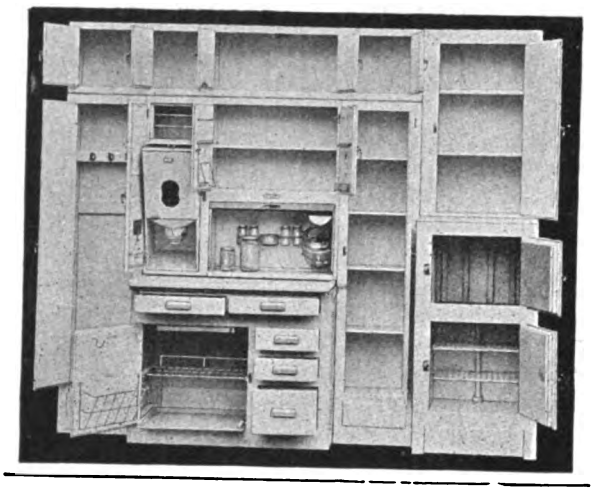
FOLEY SAW TOOL COMPANY

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STANDARD KITCHEN UNITS



For better kitchens and bigger profits—Units!

A VALUABLE service for your customer—a substantial profit for yourself—this is the double opportunity Kitchen Maid Units offer you. Units bring an instant increased value to any home or apartment. They save floor space, utilize wall space; they are the last word in modern kitchen beauty and convenience. Kitchen Maid Units are flexible—you can use them singly or grouped; in any arrangement you please; in a kitchen of any size. And Units, remember, cost no more than old fashioned cupboards. Mail the coupon for builder prices, catalogue and dimensional drawings.

WASMUTH-ENDICOTT CO.
1512 Snowden Street, Andrews, Indiana

Please send me information regarding the units checked:

( ) PULMANOOK, consisting of table and 4 seats folding into wall. For alcove ( ); for any kitchen corner ( ).
( ) COMBINATION 210-X, with refrigerator, consisting of cabinet, broom closet, dish closet, and linen cupboards to set against wall.
( ) IN-A-WALL IRONING BOARD, folding into wall when not in use.
( ) BROOM CLOSET, to set in any kitchen ( ); to be built into wall ( ).
( ) DISH CLOSETS, LINEN CUPBOARDS, to be set in ( ); to be built in ( ).
( ) IN-A-WALL TELEPHONE SEAT.
( ) KITCHEN MAID KITCHEN CABINET.
( ) DIVIDED CUPBOARDS, to be used to separate breakfast room from kitchen.
( ) REFRIGERATOR.

Name .....

Address .....

City ..... State .....

"Let the Kitchen Maid be your Kitchen Aid"

KITCHEN MAID
STANDARD UNIT SYSTEMS

See Telephone Directory in leading cities for branch offices and agents.

The new
PARKS
Cabinet Shop Special
No. 7
$250.
as illustrated with motor



The Greatest Success of Parks History!

Think of It!

8-inch rip and cross cut saw
6-inch safety jointer
16-inch band saw
Motor — for only $250.00.



Have you a copy of the Parks complete Catalog?

In a few short months, Parks Cabinet Shop Special No. 7 has won such popularity as to make it the big leader of the Parks line.

Right from the start our production was pushed to the limit to meet the orders that poured in.

Contractors wanted it! A real, all-around, complete, self-contained woodworker that makes any cut, and ready to work at any light socket. Designed as your own experience proves is most convenient, natural, efficient and durable. No freakish innovations! The motor and belting are where they should be—out of the way. A clear work table with room to swing a board over. No trick adjustments to learn. Every operation is table-high—no back-breaking bending.

And priced at $250.00 complete with motor! You can add a shaper at $25.00, a lathe for $15.00, a sander for $2.50.

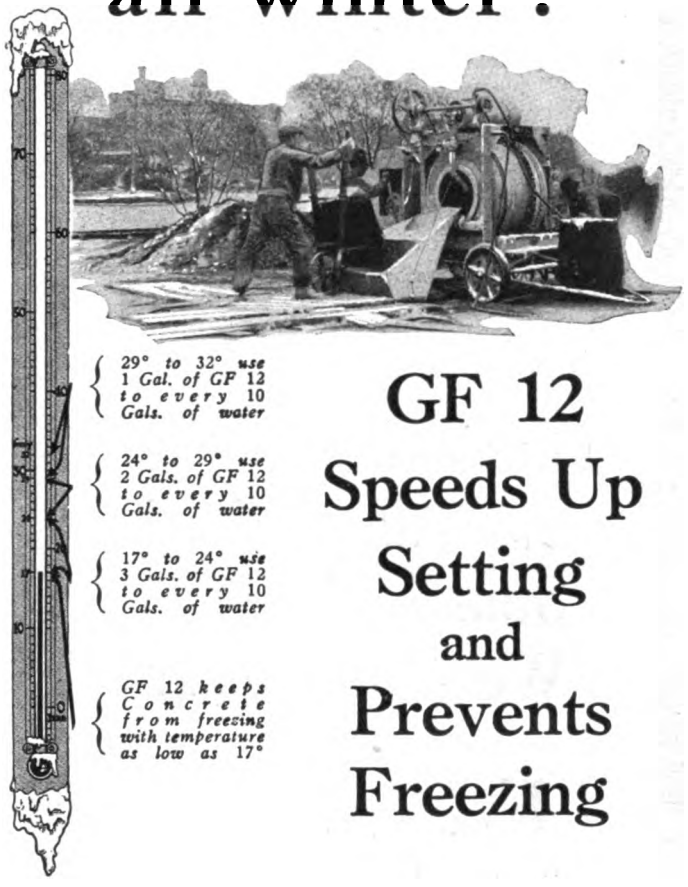
You wanted it—Parks built it. Our rush of orders have proved it a winner. Write today for circular and name of your nearest dealer.

The Parks Ball Bearing Machine Co.
Station A, CINCINNATI, OHIO
Canadian Factory: 200 Notre Dame East, Montreal, Canada

PARKS
WOODWORKING MACHINES

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Pour concrete all winter!



29° to 32° use 1 Gal. of GF 12 to every 10 Gals. of water

24° to 29° use 2 Gals. of GF 12 to every 10 Gals. of water

17° to 24° use 3 Gals. of GF 12 to every 10 Gals. of water

GF 12 keeps Concrete from freezing with temperature as low as 17°

GF 12 Speeds Up Setting and Prevents Freezing

THE use of GF 12 Cement Accelerator is a simple precaution that makes concrete construction in cold weather as practical as summer work. It does away with the expense of heating equipment, of fuel, of tarpaulins, or of sawdust to protect the work. GF 12 is merely mixed with the gauging water. It requires no extra labor. Its chemical action enables the setting process of the concrete to go on at temperatures as low as 15 degrees below the normal freezing point.

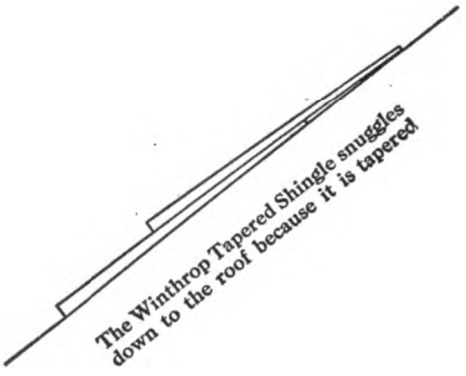
Contractors find that GF 12 saves more money than it costs. Besides acting as a sure Frost Preventative, it is a Cement Accelerator, Concrete Hardener and Waterproofer. It is used all year round—increases volume of work in all temperatures, puts equipment, otherwise idle, to work in winter.

If you are unfamiliar with the use of GF 12 Cement Accelerator, do not delay in writing for the "GF Waterproofing Handbook." It is filled with valuable information that will help you solve your construction problems. Write for it today.

THE GENERAL FIREPROOFING BUILDING PRODUCTS
Youngstown, Ohio

Branches in All Principal Cities *Dealers Everywhere*
Export Department: 90 West Street, New York City
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GF Waterproofings And Preservative Products



Notice how the taper—an exclusive feature of the Winthrop—allows the shingle to lie tight for its entire length and how the thick butt doubles the wearing thickness where exposure to weather comes.

The thick butt of a Winthrop is built up of extra coats of everlasting asphalt on both sides of the heavy felt core.

the Big Butt Shingle

Winthrop Tapered Asphalt Shingles

do not warp, curl, split, crack, rust, rot nor dry out.

The surfaces of Winthrops are of non-fading crushed slate, anchored into the asphalt. In solid colors or in mottled effects, Winthrop roofs are beautiful.

Nothing equals Winthrop Tapered Asphalt Shingles for laying right over old roofs. This makes reroofing possible in any weather in which a man is willing to work outdoors. It lengthens your season.

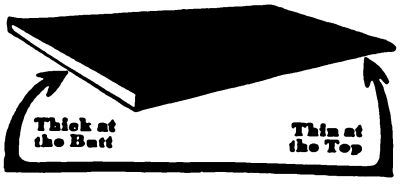
LUMBER DEALERS

carry Winthrops, but upon request we will send you a sample, free, with literature. Give a color preference in writing and see if we don't please you.

Beckman-Dawson Roofing Company

830 F. C. Austin Building
111 West Jackson Boulevard, Chicago, Illinois

Also Manufactured by
Lockport Paper Co., Lockport, N. Y.



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Oak Floors help sell the house.



Oak Floors Laid in Nine Miles of Real Homes

"Establish a reputation for *reliability*,"—one of the major factors in the success of the Whitcomb & Keller Co., a concern which for 25 years has furnished the citizens of South Bend, Ind., with well-built and well-designed homes.

Public confidence is established and held. Naturally all construction materials are carefully selected for suitability, intrinsic worth, and lasting value.



Two pioneer Indiana realtor-builders.



F. C. Keller, President, Whitcomb & Keller Co., South Bend, Ind.

L. C. Whitcomb, Secretary-treasurer

Oak Floors met this test. When the prospective purchaser sees bright, clean floors of Oak, he knows they reduce housework, will never need replacement, and add lasting value to the property.

Oak Floors are Standard

The advantages of Oak Floors are appreciated by all builders who build for permanence, comfort and beauty. They are sanitary. No cracks to collect dirt. They retain their natural beauty indefinitely.

"The Story of Oak Floors" contains color plates of modern finishes which harmonize with room decoration. It will be mailed to you on request, with technical literature of great practical value to builders.



Mail this Coupon for Free Literature

OAK FLOORING BUREAU
841 Hearst Building, Chicago

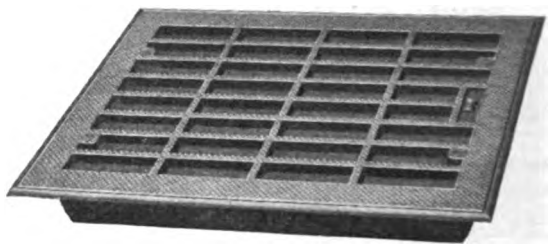
Please send me "The Story of Oak Floors," and "How and Where to Use Oak Floors."

Name.....

Address.....

City..... *State*.....

T&B Registers



Cobble Face Register Style 80, Tanbo Antique Finish

Because

The Tanbo Finish Stands the Wear and Tear

FURTHERMORE, folks are fed up on having the usual black, shiny register stick out in its common-placeness in an otherwise attractive room.

That's why we designed this new Cobble face with its always pleasing neutral toned, Tanbo Antique Finish. It will fit any room in any house you build. Get one. Try it out. See for yourself.

TUTTLE & BAILEY MFG. CO.

For over 75 years Makers of Registers

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1123-29 W. 37th St. CHICAGO
704 East 18th Street KANSAS CITY
Bridgeburg CANADA

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Use it on the Job or in the Shop!

Contractors! Builders! Shop Owners! One and all get maximum results with the Famous Jr. "30" Woodworker! No waiting on the mill for "hurry up" jobs,—no wasting of power in the shop on individual machines. Many a complete woodworking shop has been built from the profits realized from an investment in the Famous Jr. "30" Woodworker which combines the five principal machines most desired by anyone working in wood,—Band Saw, Saw Bench, Jointer, Shaper and Boring Machine. With a few extra attachments, over thirty different operations can be performed.

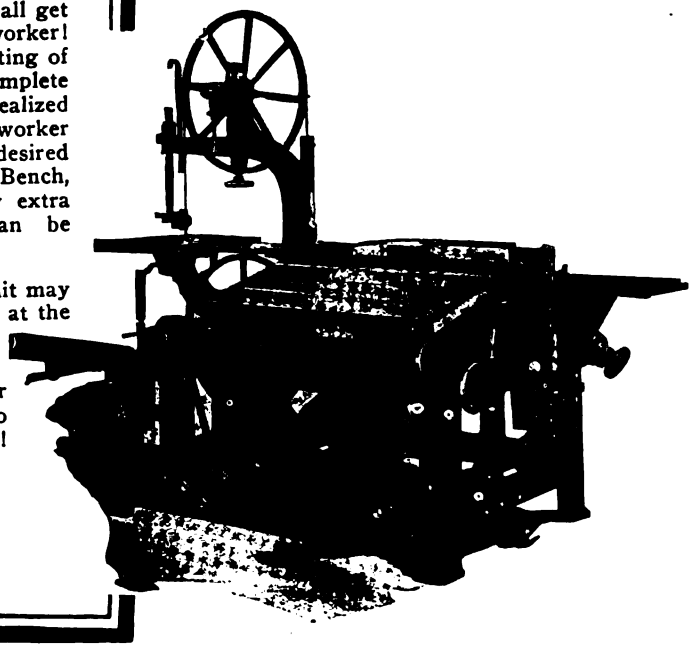
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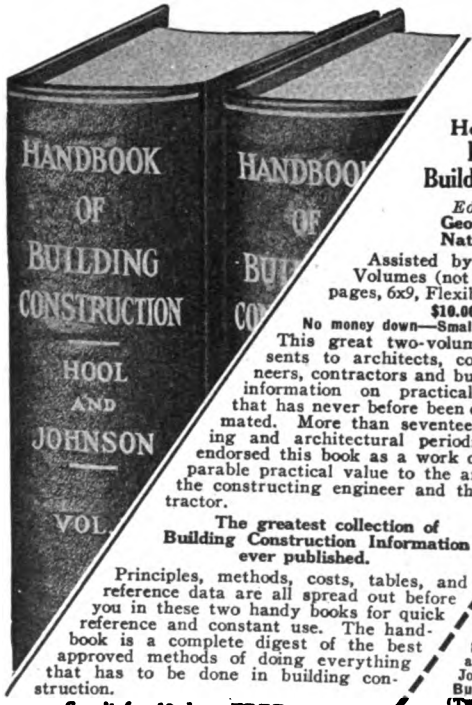
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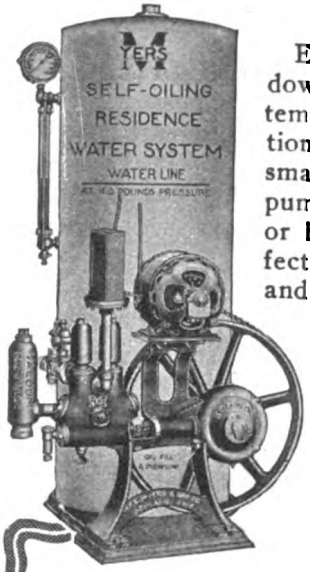
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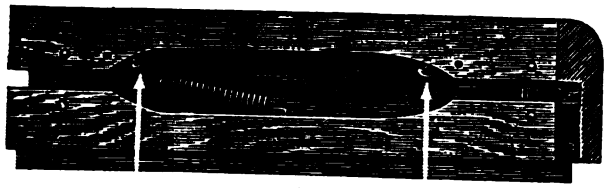
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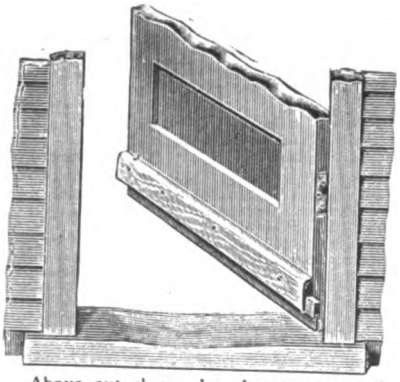
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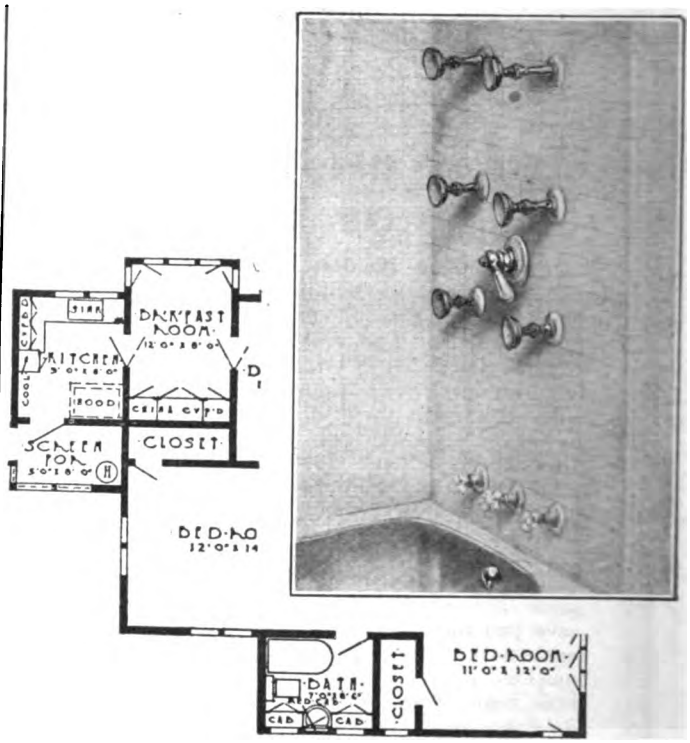
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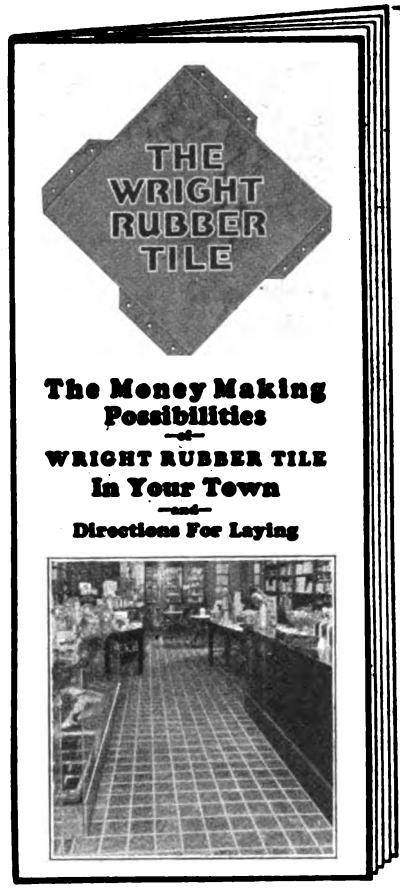
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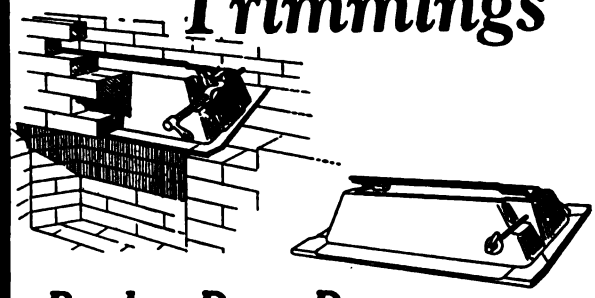
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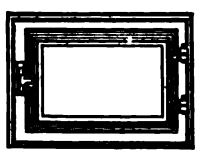
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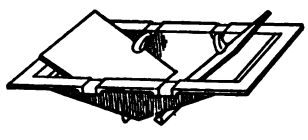
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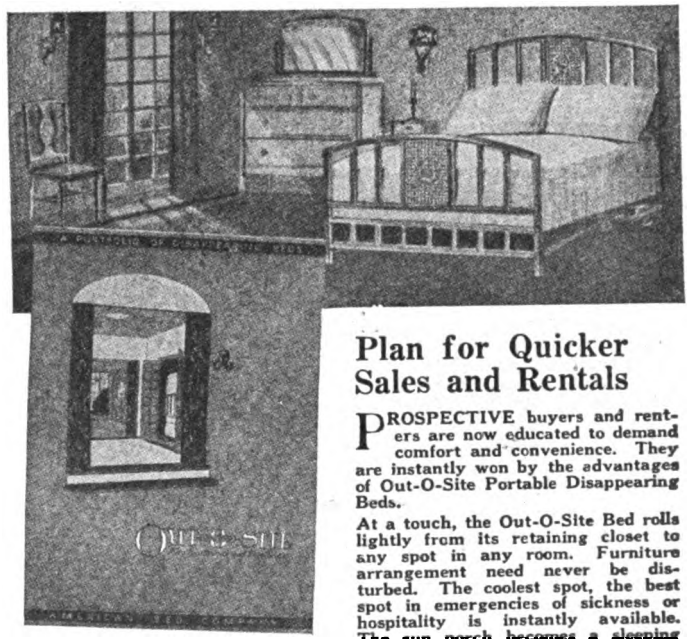
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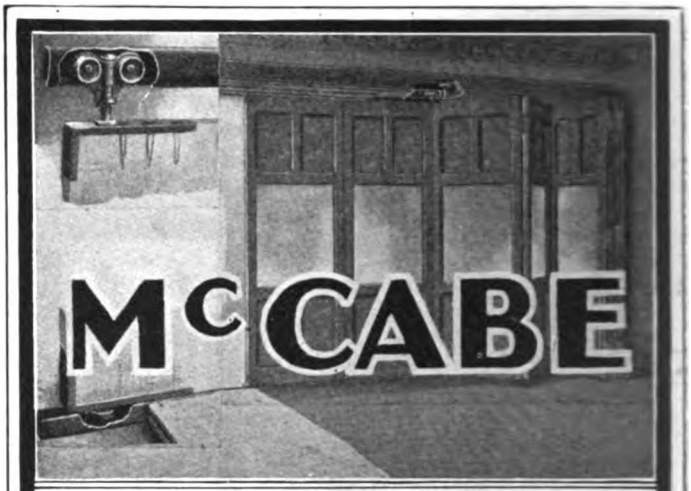
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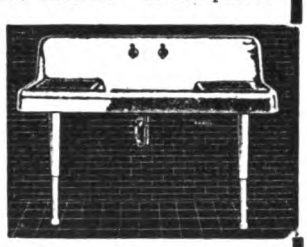
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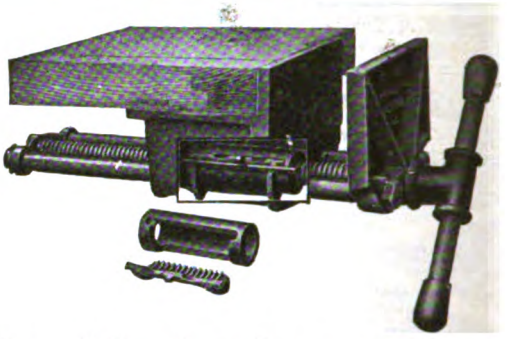
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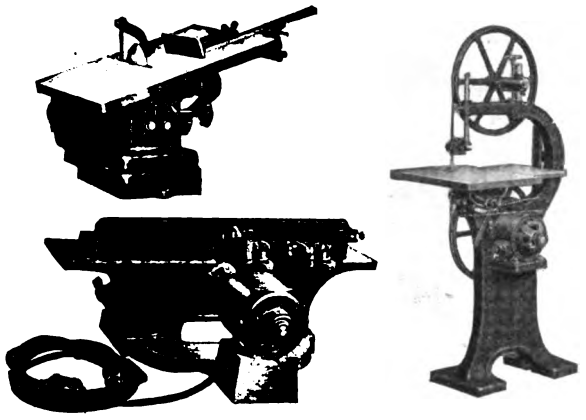
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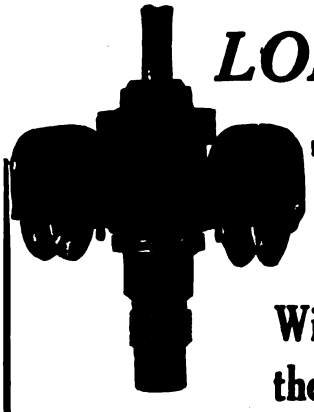
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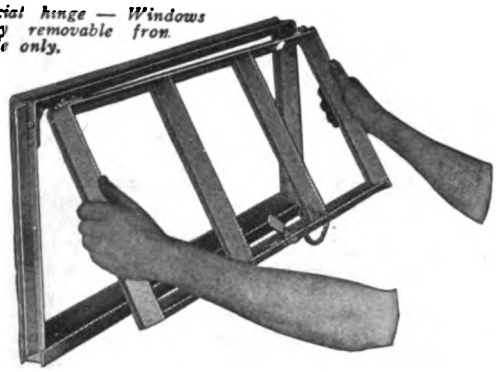
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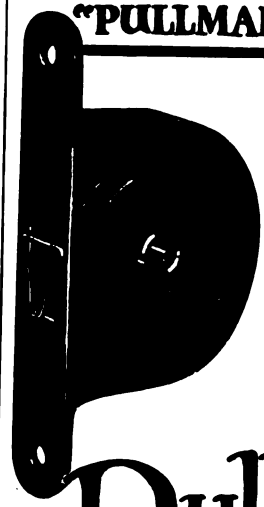
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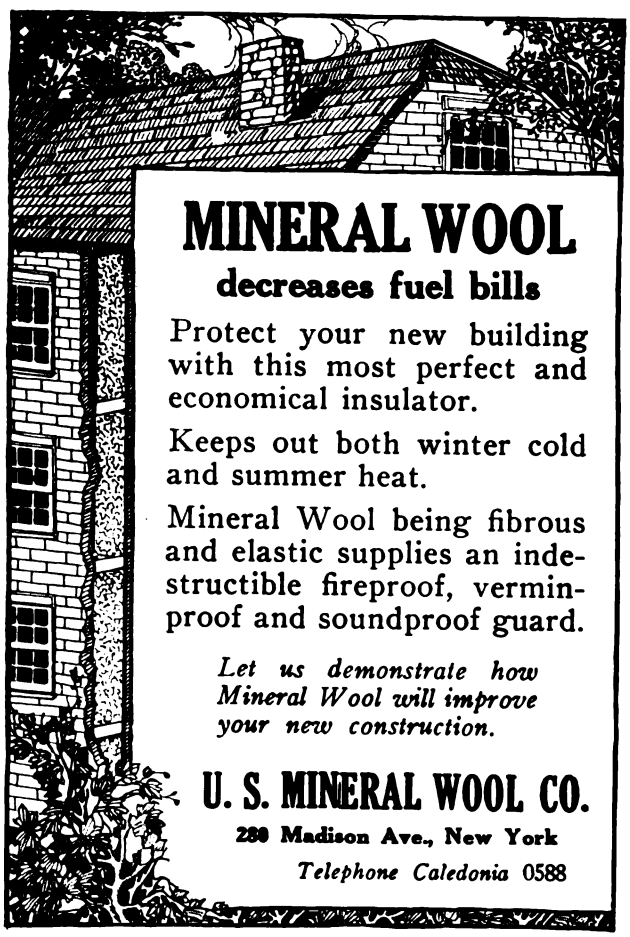
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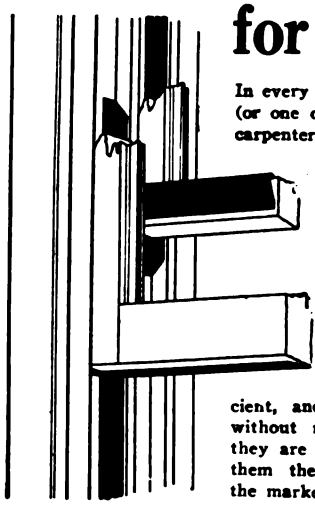
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You can double your income right now by installing A. B. C. Weatherstrips under our plan which brings the jobs as fast as you can handle them. A.B.C. Weatherstrips are the most efficient, and because they can be installed without removing or grooving the sash, they are the lowest in cost. That makes them the fastest selling weatherstrip on the market.

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and we will send you, prepaid, complete material, including brass nails, for the installation of one double hung window. Make the installations with the aid of our complete directions, then show the window to your friends and neighbors, and you will understand how easy it is to sell A.B.C. Weatherstrips. Just send name, address, and one dollar, but act immediately.

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I inclose $1.00 for which please send by parcel post prepaid, the A.B.C. Weatherstrip material needed for one double hung window, with directions for installation.

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Aurora Doors for any Door that Slides
AURORA, ILLINOIS, U.S.A.
Branches in important centers

(952) See page 212 this issue

BERG

CONCRETE SURFACER AND FINISHER

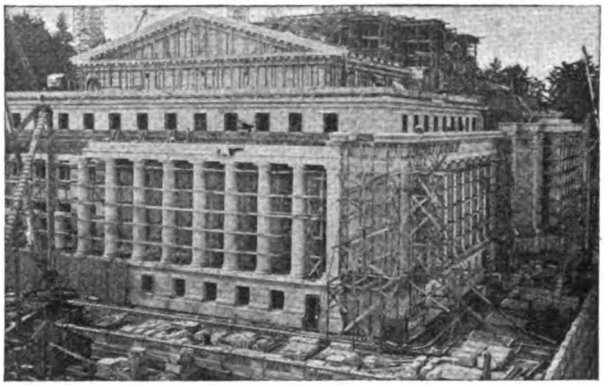
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Main Building, Washington State Capitol Group. Sound Construction Co., Seattle, Contractors. BERG Surfacer used on concrete interior; BERG Electric Multiple used to clean all exterior stone trim.

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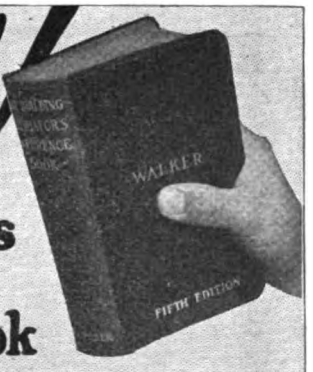
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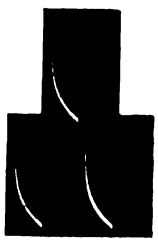
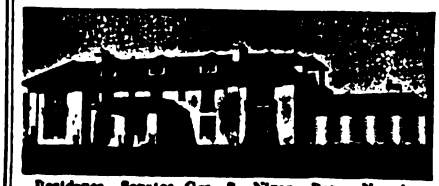


Fig. 157
Note the construction of patent interlocking flashing used on Edwards Metal Shingles and Spanish Tile.



Fig. 367
Metal Spanish Tile for main part of roof.

Edwards Queen Anne Metal Shingles



Residence, Senator Geo. S. Nixon, Reno, Nevada. Edwards Metal Spanish Tile used on the building.

EDWARDS Metal Spanish Tile



It is wonderful what a remarkable transformation takes place when an "Edwards" Metal roof is properly applied to a house—all of the charm of the old Spanish Terra Cotta Roofing Tile is preserved, even to the color.

The house takes on a new lease of life. It seems a better place to live in. It helps put the stamp of progressiveness and thrift on a community. An Edwards Metal or Tile Roof is a real commercial asset and will bring a better return in rent or sale.

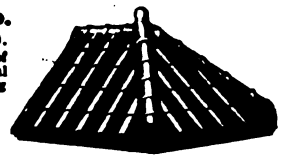
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Snow-White Steel



STYLE E to recess with open pocket below.

HESS Cabinets and Mirrors are built to the highest standard of workmanship and finish.

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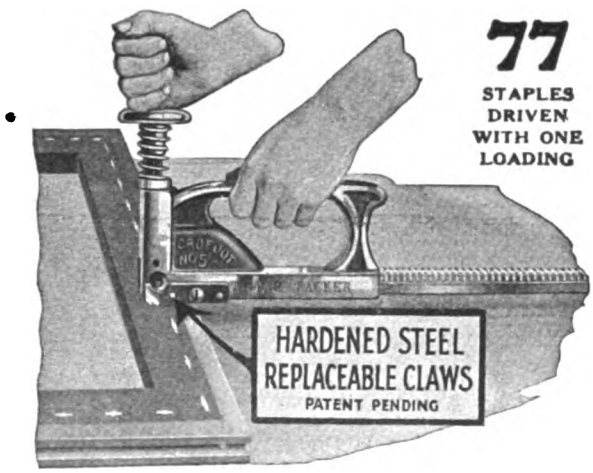
See Sweet's Index; or write for illustrated booklet.

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Makers of Hess *Welded Steel* Furnaces.
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Crofoot Tackers—Patented U. S. A. and Foreign Countries

DRAW TACK WITH A CLAW WHACK



Crofoot Screen Tacker is the best device for fastening screens. Drives 77 Staples with one loading, reloaded 3 seconds. Working parts of high grade steel properly hardened. Absolutely guaranteed.
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It is so heavily coated with zinc that this metal represents one quarter of its composition. The salts formed by zinc in contact with moisture are colorless, and will not make stains under windows in which it is used.

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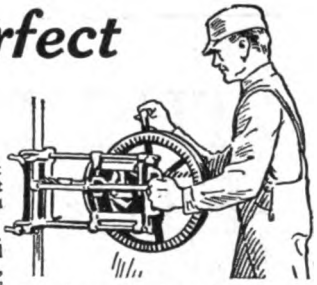
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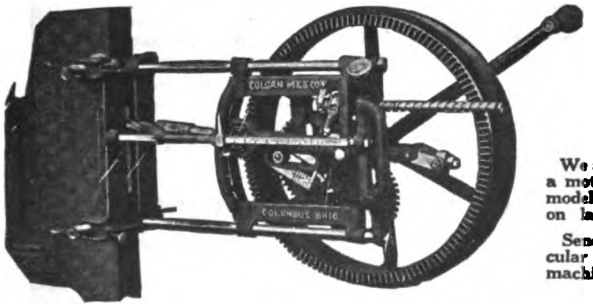
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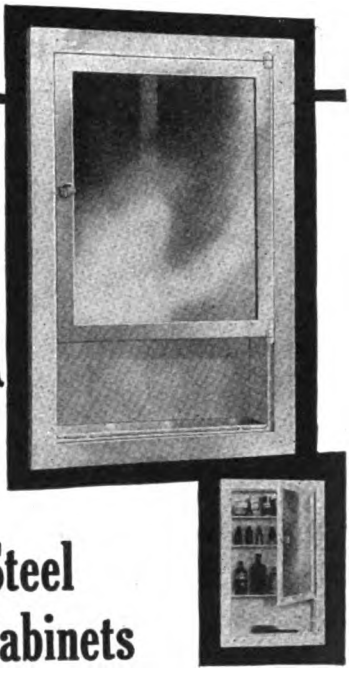
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We also make a motor driven model for use on large jobs.

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Acme Sanitary Steel Bath Room Cabinets

Get our prices and specifications on cabinets before you place your order. The owner will like the way they look when installed, and you'll like the way they affect your profit sheets.

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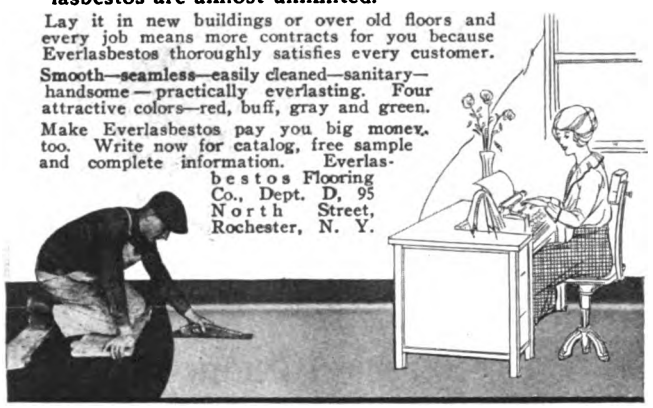
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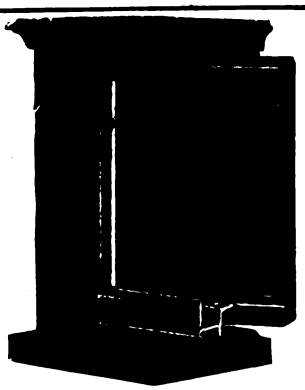
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Mechanical Refrigeration

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will prove, conclusively, why you should make this your business—there is a greater demand for it every year.

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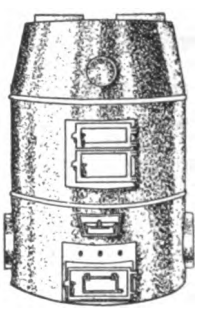
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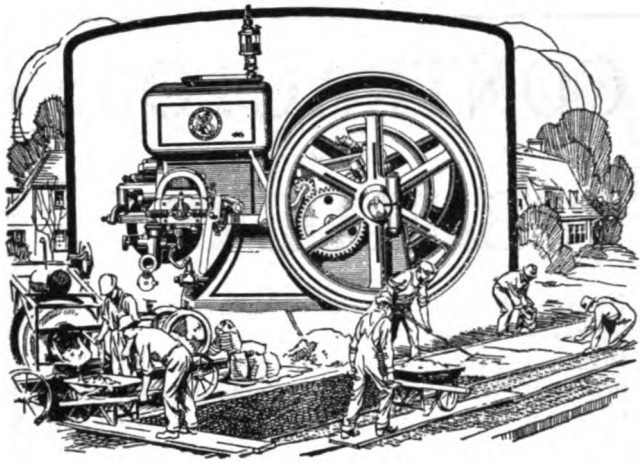
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Bottom Section of Pfaudler Chute—Los Angeles Biltmore, Los Angeles, Cal.

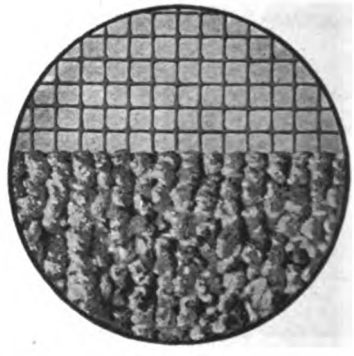
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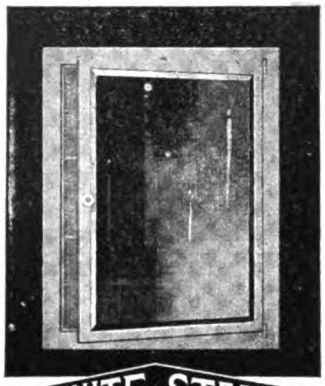
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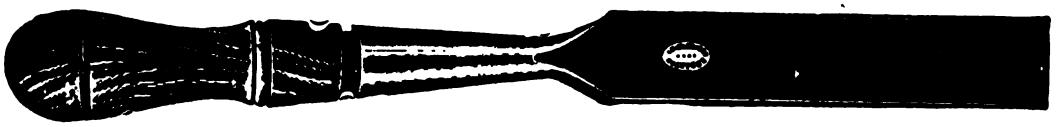
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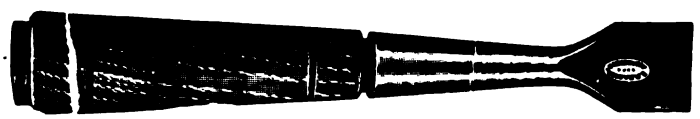
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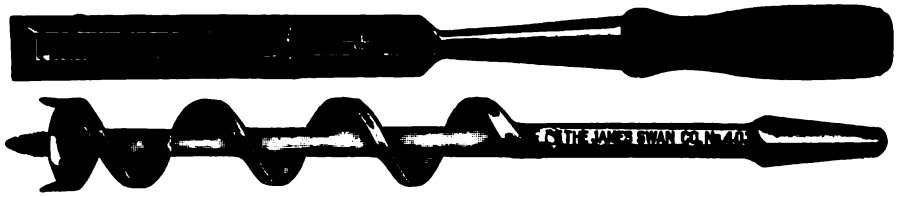
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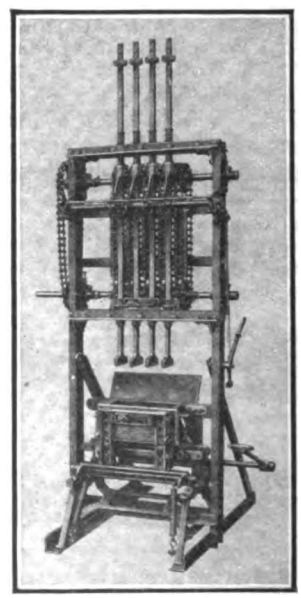
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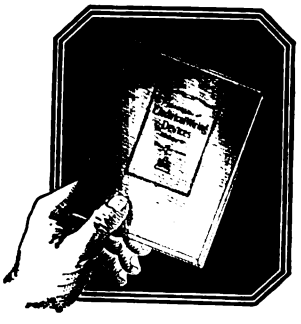
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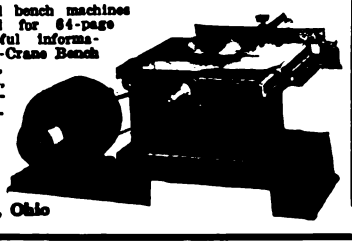
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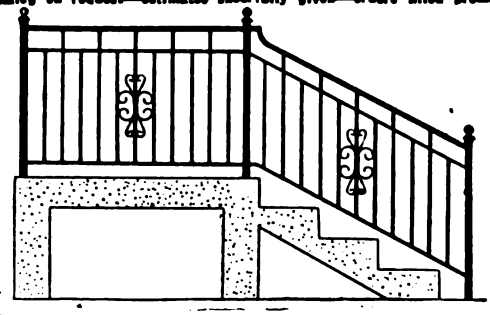
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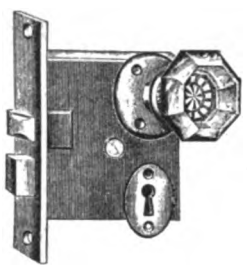
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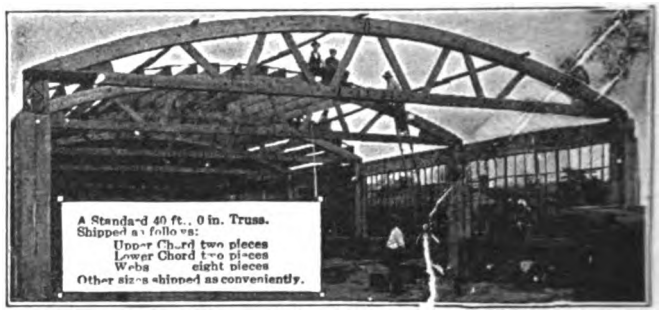
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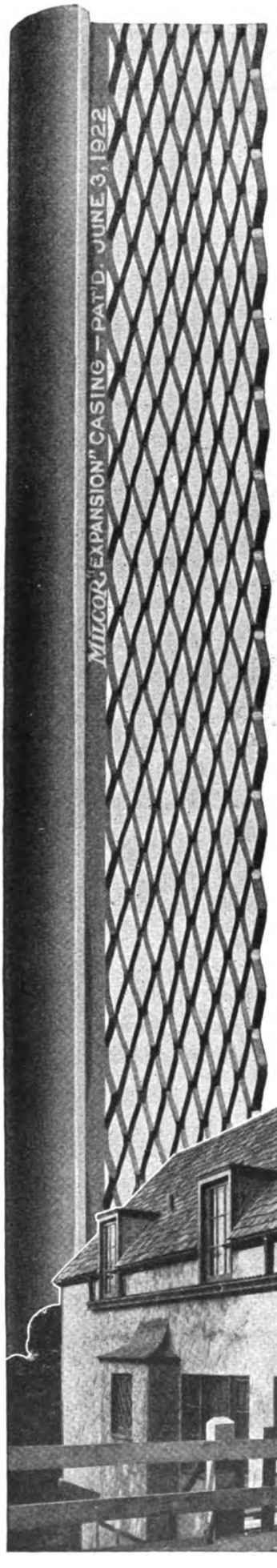
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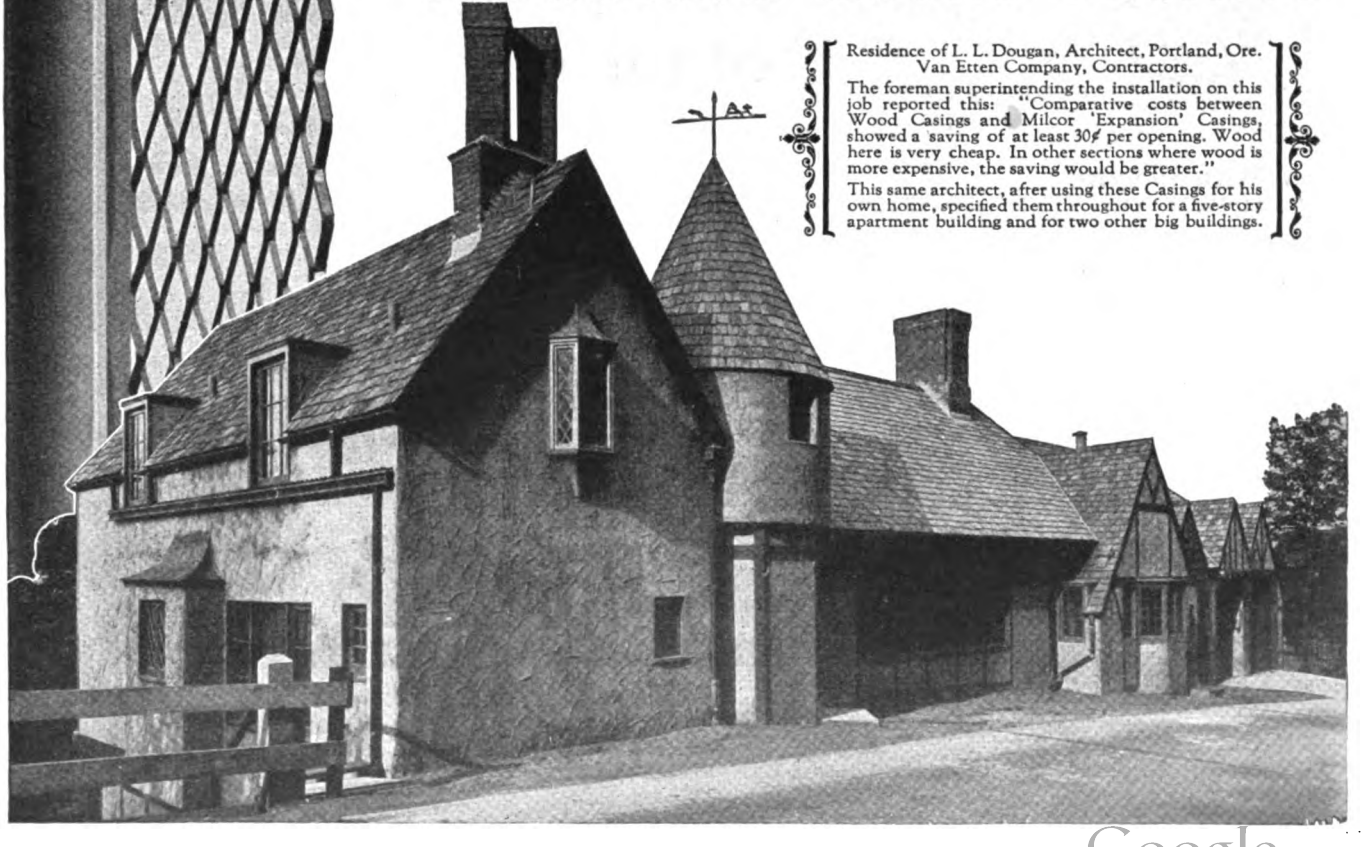
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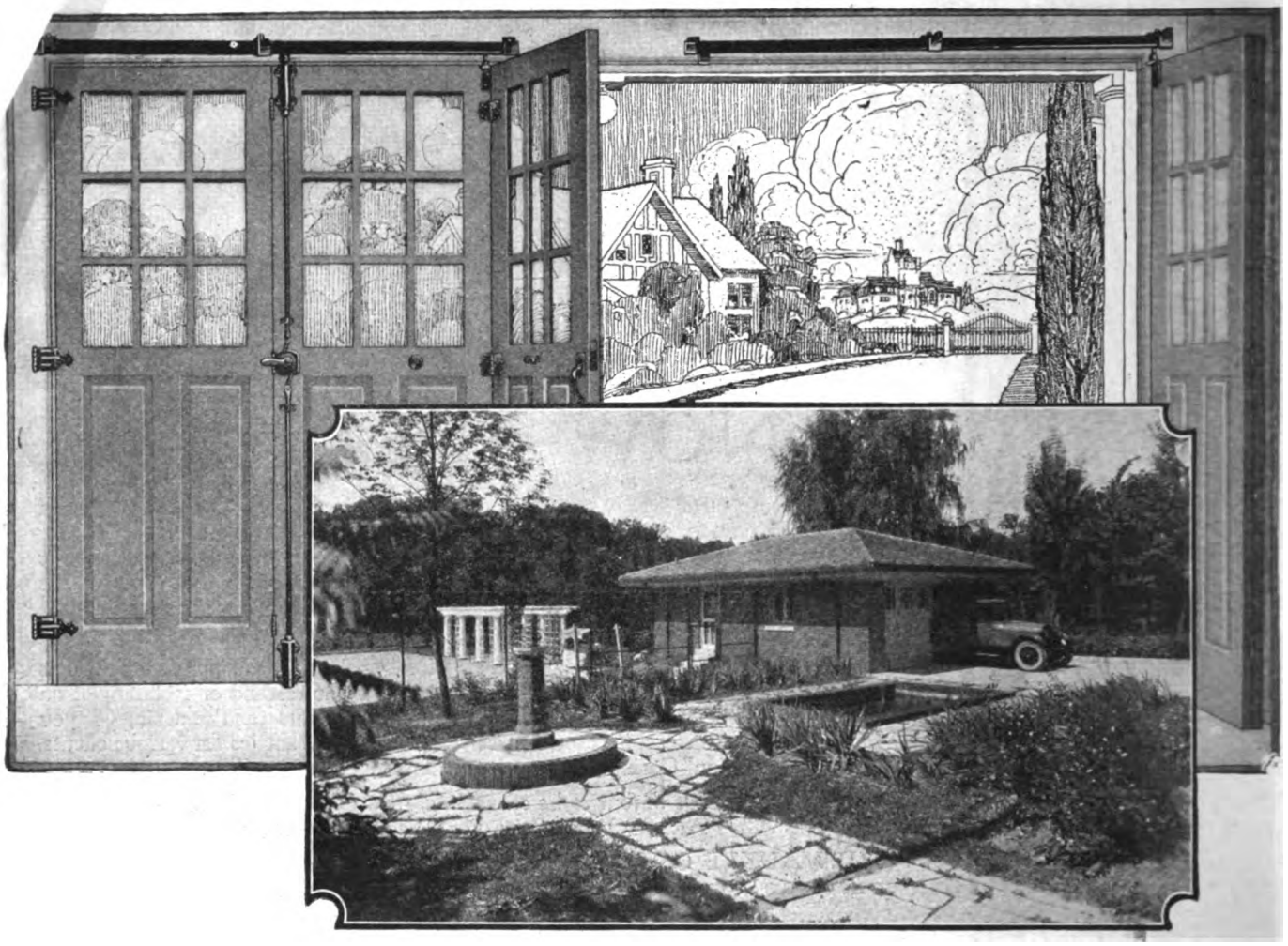
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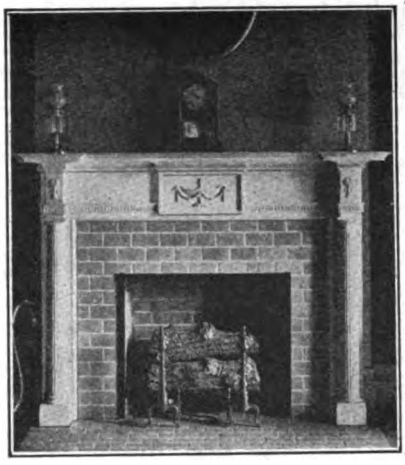
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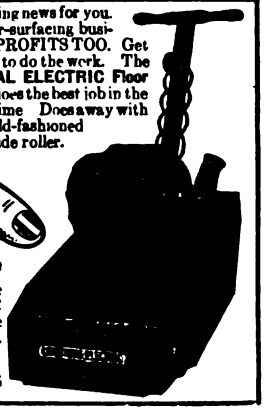
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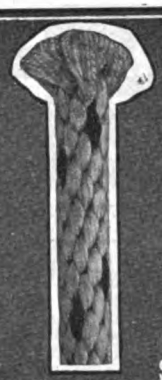
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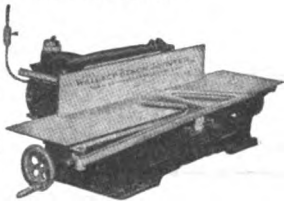
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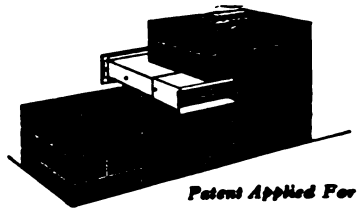
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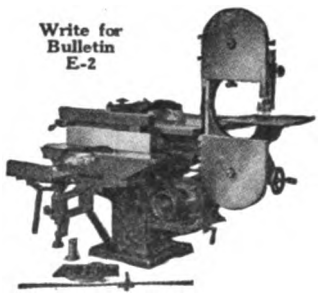
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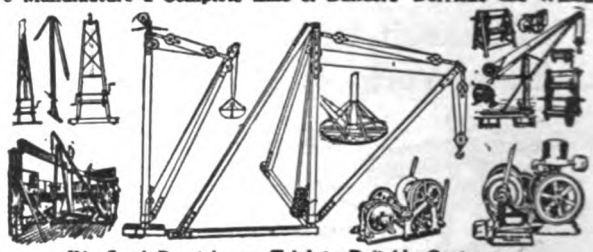
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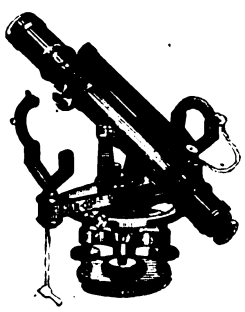


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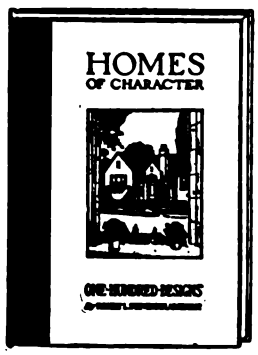
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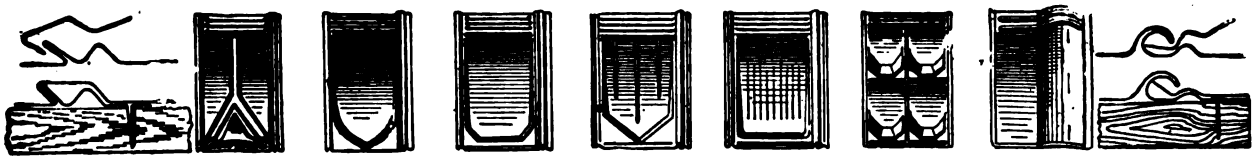
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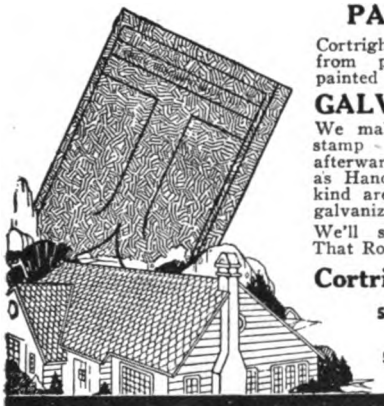
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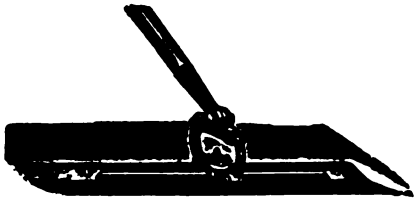
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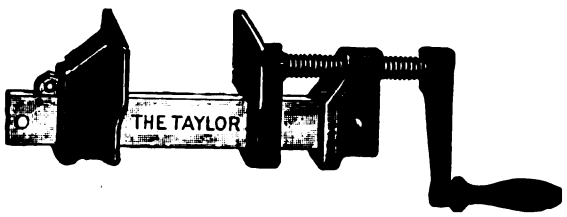
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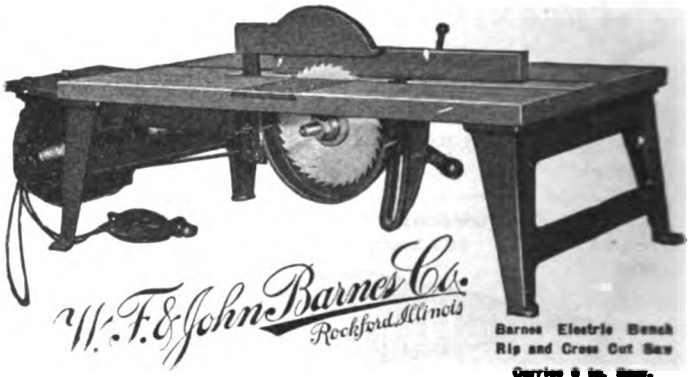
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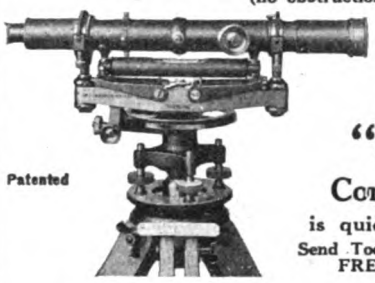
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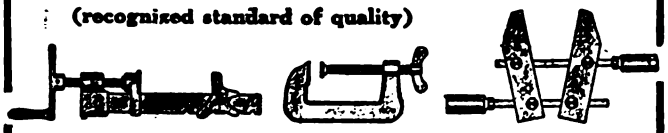
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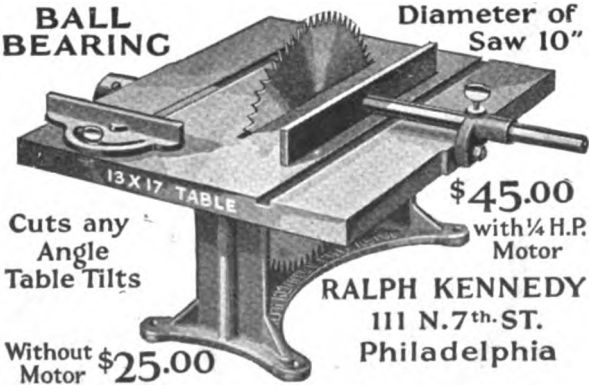
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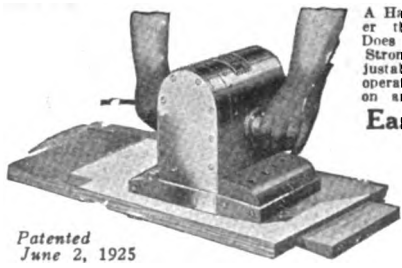
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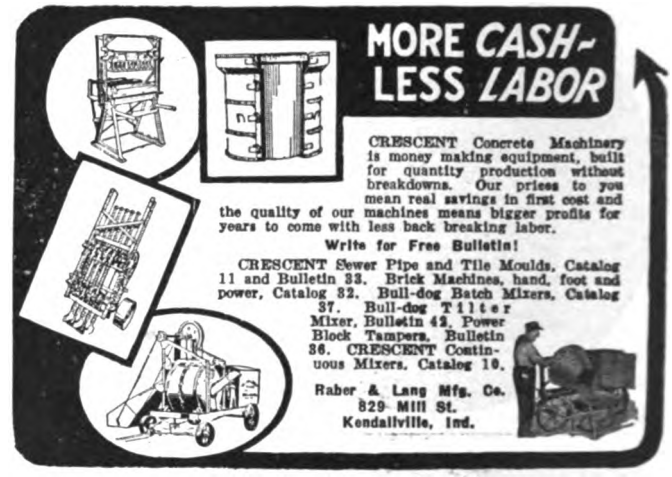
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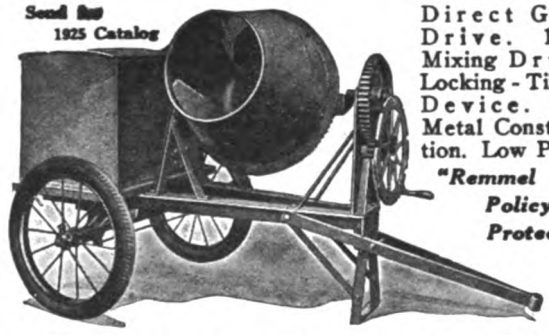
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